

# NADC

# STATISTICAL REVIEW OF COUNTING ACCELEROMETER DATA FOR NAVY AND MARINE FLEET AIRCRAFT FROM 1 JAN 1962 TO 30 JUN 1974

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NAVAL AIR DEVELOPMENT CENTER
Warminster, Pennsylvania 18974

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This report is a specialized summary of normal acceleration data recorded by counting accelerometers. Data are separated by calendar time and mission category. Only data reported in the counting accelerometer program are included.

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#### SUMMARY

This is a semi-annual progress report, and it presents a specialized summary of the data in the counting accelerometer program. Statistics describing Navy and Marine aircraft cumulative g-count exceedances are calculated and tabulated. These tabulations are separated by calendar time and into four major categories of fleet experience: Navy Training, Navy Combat, Marine Training, and Marine Combat.

These data show that the load rate distributions (counts at 1000 hours) for most models and most g-levels have a non-normal distribution. Within a model (F-4B, F-8H, etc.) differences in the average load rates exist when data are separated by calendar time or mission category.

#### SPECIAL NOTES

- 1. This report supersedes and replaces all previous issues of this semi-annual report. (Previous issue report control symbol NADC-13920-2) dated 1 May 1974.
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#### TABLE OF CONTENTS

,	3		:	PAGE
SUMMARY				. iii
SPECIAL NOTES	• • • • •			. iv
INDEX OF CURRENTLY OPERATIONAL MODELS	• • • • •			. vi
INDEX OF OUT-OF-SERVICE MODELS AND MODE REPORTED COUNTING ACCELEROMETER DATA				
12 MONTHS		• • • •	• •	. vi
INTRODUCTION			• •	. 1
DISCUSSION				. 2
ACKNOWLEDGEMENT				. 4
TABLES		• • • •	• •	. 5
APPENDIX A - OUT-OF-SERVICE MODELS AND NOT REPORTED COUNTING ACCELEROMETER DEPREVIOUS 12 MONTHS	ATA DURING	THE		. A-
APPENDIX B - THE DETERMINATION OF SAMPI COUNTING ACCELEROMETER DATA	E STATISTIC	S FOR		

RCS NADC 13920-2

INDEX OF CURRENTLY OPERATIONAL MODELS

Mode1	Previous 12 Months Data	All Data
A-4FBA (Blue Angels)	PAGE 6	PAGE 7.
F-4J (Blue Angels)	8	9
KA-3B	10	11
EKA-3B	12	13
A-4F	14	15
TA-4F	16	17
A-4G	18	19
TA-4J	20	21
A-4M	22	23
RA-5C	24	25
A-6A	<b>2</b> 6	27
EA-6A	28	29
A-6B	30	31
EA-6B	32	33
A-6C KA-6D	34	35
A-6E	36	37
A-7A	38 40	39 41
A-7B	40	43
A-7C	44	45 45
A-7E	46	47
C-2A	48	49
F-4B	50	51
RF=4B	52	53
F-4J	54	55
F-4N	56	57
RF-8G	58	59
F-8H	60	61
F-8J	62	63
F-8K	64	65
F-8L	66	67
DF-8L	68	69
P-3A	70	71
P-3B	72	73
P-3C	74	75
ES-2D	76	77
S-2E	78	79
S-2G	80	81
S-3A T-2B	82	83
T-2B T-2C	84 86	85
T-28B	86	87
T-28C	88 90	89
T-34B	90	91 93
<b></b> √7µ	74	93

RCS NADC 13920-2

INDEX OF OUT-OF-SERVICE MODELS AND MODELS WHICH HAVE NOT REPORTED COUNTING ACCELEROMETER DATA DURING THE PREVIOUS 12 MONTHS (APPENDIX A)

Mode1	All Data
F-11A(Blue Angels)*	A-2
F-llA (Blue Angels)**	A-3
AF-1E	A-4
A-1H	A-5
A-1J	A-6
A-3B	A-7
A-4B	A-8
TA-4B	A-9
A-5A	A-10
A-5B	A-11
KC-130F	A-12
F-4A	A-13
TF-4A	A-14
F-4G	A-15
F-6A	A-16
F-8A	A-17
RF-8A	A-18
TF-8A	A-19
F-8B	A-20
F-8C	A-21
F-8D	A-22
F-8E	A-23
DF-8F	A-24
EF-10B	A-25
F-11A	A-26
S-2D	A-27
T-2A	A-28

<sup>\*</sup> TRANSDUCER LOAD-LEVEL RANGE (4-, 5-, 6-, 7-g)

<sup>\*\*</sup> TRANSDUCER LOAD-LEVEL RANGE (6-, 7-, 8.5-, 10-g)

#### INTRODUCTION

The NAVAIRDEVCEN (Naval Air Development Center) is engaged in various flight maneuver-loads programs as assigned by the Naval Air Systems Command. One of these is the counting accelerometer program, and under this program data have been collected and reported since 1955.

The primary purpose of this program is to provide the flight load history of individual Navy and Marine aircraft. Other purposes include, but are not limited to, the comparison of operational loads environment with structural design requirements, the comparison of load histories of one model with another, and the determination of expected loads environment of future models. More recently, however, these data are used as the major input in the NAVAIRDEVCEN Aircraft Structural Fatigue Life Evaluation Program in estimating structural fatigue damage for those aircraft which do not have counting accelerometer data.

#### DISCUSSION

This is a semi-annual progress report. Included are statistical summaries of counting accelerometer data for all Navy and Marine aircraft. In service models appear in the main text. Out-of-service models or models which have not reported counting accelerometer data during the previous 12 months appear in Appendix A. The summary for each out-of-service model is its final summary. New models are added as their counting accelerometer data becomes available.

For each model, the following statistics are presented: (See Appendix B for the statistical procedures.)

- x the estimated mean load exceedances (counts at 1000 flt. hrs.) for each g-level recorded on the counting accelerometer.
- S estimated standard deviation (counts at 1000 flt. hrs.) of the load exceedances for each g-level.
- A3 estimated skewness factor for the load exceedance distribution.

Two statistical summaries describing cumulative g-count exceedances and flight hours for each currently operational model are presented:

- 1. The first summary includes all quality-control accepted data reported in the time period comprising the terminal date of this report and the 12 months preceding that date.
- 2. The second includes all quality-control accepted data reported in the counting accelerometer program from the day each airplane was delivered for service to the terminal date of this report.

The first summary, which includes only the most recent 12 months, shows an indication of a model's current severity of usage. The second summary describes the severity of loads experienced by all airplanes of each model since acceptance. A comparison of the first summary with the second shows whether current usage for any model is more or less severe than usage over its full lifetime.

A further breakdown by mission category is provided for each airplane model in both of the aforementioned summaries. These categories are defined as follows:

1. Navy Training - an airplane in a Navy squadron assigned to a non-combat zone. (This includes all Navy airplanes not classified as being in a combat zone.)

- 2. Navy Combat an airplane in a Navy squadron assigned to a combat zone.
- 3. Marine Training an airplane in a Marine squadron assigned to a non-combat zone. (This includes all Marine airplanes not classified as being in a combat zone.)
- 4. Marine Combat an airplane in a Marine squadron assigned to a combat zone.

The statistics for the A-4F Blue Angels are separated into solo aircraft and diamond formation aircraft. In the subsequent tables, the total flight hours shown for a given model are the sum of the hours reported for each category. However, summing the number of airplanes reporting in each category can result in a number exceeding the total aircraft, because the same airplane may have seen service in two or more categories. Its data were separated for calculation of statistics for each respective category.

Some general statistical observations for fleet-wide loads data are the following:

- 1. The load exceedance distribution for many of the aircraft models is non-normal (particularly asymmetrical) at all the g-levels recorded. In general, the degree of asymmetry increased with increasing g-level.
- 2. The scatter measure  $\frac{S}{\bar{x}}$  (coefficient of variation) increases with higher g-levels.
- 3. For a given g-level, there is more scatter in loads received during training than during combat.
- 4. Differences exist in loads frequency among various configurations of the same model and various mission categories within the same configuration.

#### ACKNOWLEDGEMENT

The author wishes to acknowledge Project Team Member, Mr. Joseph Caristo, of the Air Vehicle Technology Department of the Naval Air Development Center, for his assistance in the preparation of this report.

#### TABLES

Counting accelerometer data are subject to quality control criteria modifications. Thus, in succeeding reports, model-wide summary statistics are subject to change even though a model may no longer be in service.

.. ALL DATA

7-73 to 06-74 MODEL A-4F AIRPLANES 398.4 HOURS

BLUE ANGELS

### SOLO

8

X 4666.0 AIRPLANES S 98.8 HOURS

5.00 5.0G 7.0G 8,00 PRACTICE 60.73 587.0 H 3

AIRPLANES

29.2 HOURS

SHOW	5,00	6.00	7.00	8.00
Σ̄	9760.3	3116.4	171.2	34.85
5	,			
Э 3	·			·

# DIAMOND

6 RIRPLANES

215.4 HOURS

PRACTICE	5.00	6.00	7.00	8.00
Σ̈́	894.3	181.0	9.28	0
5				
H 3				,

5 AIRPLANUS

55.0 HOURS

SHOW	5.00	5.00	7.00	8,00
x	* 2109.0	545.5	145.5	18.18
S	2203.0	343.3	27303	20,20
F 3		: } }	<b>(</b>	

- INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MODEL A-4F

8 AIRPLANES

398.4

HOURS

BLUE ANGELS

### SOLO

		PRACTICE	5.00	6.00	7.0G	8.0G
4	AIRPLANES	x	4666.0	587.0	60.73	0
98.8	HOURS	୍ଷ		2		
		A 3				

4 AIRPLANES
29.2 HOURS

SHOW	5.00	6.0G	7.OG	8.00
$ar{X}$	9760.3	3116.4	171.2	34.85
S				
Αз	4		·	

### DIAMOND

6 AIRFLANES
215.4 HOURS

PRACTICE	5.00	6,06	7.OG	8.00
Σ̄	891 <b>*.</b> 3	181.0	9.28	0
S			'	
А 3			·	

5 AIRPLANES

	SHOW	5.00	6.00	7.OG	8.OG
ES	χ	2109.0	545.5	145.5	18.13
	S			ì	
	A 3				

- MEAN CUMULATIVE COUNTS BED 1000 HOURS
- STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- W NO DATA IN THIS CATEGORY
- AR INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 TO 06-74

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I	M		E	-	 4	ل

2 AIRPLANES 60 HOURS

BLUE ANGELS /

### NAVY

1	AIRPLANES
	HOURS

DI	AMOND	5 - 00	7.0G	8.56	18.56
	X	o •cc ,	5 . 5 5	s - 50	0.00
	S	e ti	•		
	f 3				

2 AIRPLANES

SOLO	6.0G	7.0G	8.50	10.00
Σ̄	1313-17	382 - 12	0.00	o -oo
<b>S</b> .	ŧī			
H 3				

### MARINE

AIRPLANES HOURS

	5.00	7.05	8.50	10.00
₹ .				
S				
Э 3				

		6.00	7.06	8*50	10.00
A:RPLANIS	x	£			
HOURS	5				
HUURO	. H 3				

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- As SKEWNESS OF LOAD RATE DISTRIBUTION
- # NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 10 06-74

MUDEL F-4J

AIRPLANES 8102 14

HOURS

#### BLUE ANGELS

		DIAMOND	6.0G	7.0G	8.56	10.06
14	AIRPLANES	Χ	502.35	164-78	21.16	1.73
5418	HOURS	S	118-81	82.68	13.94	1.23
		Н 3	0-22	0.78	0.49	0.53
	° f	SOLO	E 00	7 00	ם בר	10 00

!O AIRPLANES 2684 HOURS

	SOLO	6.00	7.0G	8.50	10.00
S	Χ̈	2220 - 24	797.59	143.85	12.38
	ទ	* *			·
	E A				

8.5G 10.0G 7.0G 6.0G Ϋ́ AIRPLANES S HOURS B 3

AIRPLANES HOURS

		6.00	7.0G	8.5G	10.00
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	ຣ				
	H 3				

ORTH FROM OT-73 TO G6-74

#### MUDEL KA-3B

4 AIRPLANES 1259 HOURS

### NAVY

	TRAINING	2,06	2.58	3.00	3,50
AIRPLANIS	X	203.71	57.21	30.50	ಚ .೦6
HOURS	S	£ £			
	Э3		`		
	COMBST	2.00	2.50	3.00	3,50
AIRPLANES	Σ	2		Inn 2	
HOURS	5				·
	A 3				
	HOURS AIRPLANZS	AIRPLANES X HOURS S A 3  COMBAT  AIRPLANES X HOURS S	AIRPLANES X 203.71 HOURS S # # # # # # # # # # # # # # # # # #	AIRPLANES X 203.71 57.21 HOURS S #: A 3  COMBAT 2.00 2.50 AIRPLANES X  S 5	AIRPLANZS X 203.71 57.21 30.53 HOURS S A. 200.71 57.21 30.53  AIRPLANZS X 2.00 2.50 3.00  AIRPLANZS X 2 2.00 5.00  HOURS S 3 4.2 5.00 5.00

### MARINE

• •					
	IRAINING	2.00	2.50	3.0G	3.50
AIRPLANES	X .	£			
HOURS	S				
1, 30, 10	F1 3				
	COMBAT	2.06	2,50	3.00	3.50
AIRPLANES	χ̈́	ė	;		
HOURS	S	·		Ŋ	
1130110	A S			;	

MEAN CUMULATIVE COUNTS PER 1000 HOURS

<sup>\$</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

AZ SKEWNESS OF LOAD BATE DISTRIBUTION

NO DATA IN THIS CATEGORY

RE INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

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41 AIRPLANES 32297 HOURS

### NAVY

		TRAINING	2.0G	2.50	3.00	್ವವಾರ್
39	AIRPLANES	Χ	117.42	16 - 39	4.80	0.83
29270	HOURS	S	146.06	20.18	8.55	2.27
		В 3	2.41	1.24	3.22	4.13
	J					
		COMBAT	2.00	2.50	3.00	3.53
11	AIRPLANES	V	2.0G	2.5G 30.93	3.0G 5.69	3.53 c.19
11	A IRPLANES HOURS	V				

## MARINE

11/ T 1/14					
	TRAINING	2.OG	2.50	3.00	3.50
AIRPLANES	χ	₩.			
HOURS	S				·
	A 3				
	COMBAT	2.OG	2.5G	3.00	3.50
	x	#			
AIRPLANES	j '`	: 1			i
HOURS	S		,		

MEAN CUMULATIVE COUNTS PER 1000 HOURS

<sup>5</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD BATH DISTRIBUTION

NO DATA IN THIS CATEGORY

<sup>##</sup> INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 10 06-74

3.50

3.00

#### MODEL EKA-3B

AIRPLANES HOURS 1 1 2741

$\square\square$	Ï

		TRAINING	2.00	2%5G	3.00	3,50
.11	AIRPLANIS	X	3.35	a .56	0.56	0.28
2711	HOURS	S	35 .50	1.21	1.21	0-61
		H 3	2.41	2 .50	2.50	2.50
	1					
		COMBAT	2.00	2.5G	3.00	3.50
	AIRPLANES	Σ̈́				
	HOURS	S				
		F1 3				
	L			L		

### MARINE

2.00 2.5G IRAINING X AIRPLANES S HOURS H 3

	COMBAT	2.00	2.5G	3.00	3.50
AIRPLANES	Σ̈́	1			: .
наикѕ	S				
(100110	Fr 3	·			

COUNTS PER 1000 HOURS

ALL DATA 01-62 TO G6-74

#### MODEL EKH-3B

20 AIRPLANES 9742 HOURS

V	A	$\bigvee$	Y
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•						
		TRAINING	2.00	2.50	3.00	<b>3.</b> 50
19	AIRPLANES	Х	354-19	65 - 33	21.52	3.53
8334	HOURS	ຣ	289 - 18	60-88	23.25	4.26
		Яз	0.85	1.77	1.98	1.96
	l					
		COMBAT	2.00	2.50	3.00	3.50
5	AIRPLANES	Ϋ́	99.38	6 -86	0.00	0.00
1408	HOURS	S	u z			
		Яз			-	

### MARINE

1 .					
······	TRAINING	2.0G	2.5G	3.00	3.50
AIRPLANES	X	Ł			·
HOURS	S				
1100110	А 3				·.
			<del></del>		
	COMBAT	2.00	2.5G	3.00	3.50
AIRPLANES	X	₹:	·	,	
HOURS	S			`	
1100110	Э 3			i	

R MEAN CUMULATIVE COUNTS PER 1000 HOURS

<sup>5</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

0918 FROM 07-73 TO 06-74

MODEL H-4F

27 AIRPLANES 5109

HOURS

#### NAVY

	·	TRAINING	5.00	6.0G	7.0G	8.00
22	AIRPLANZS	X	354.17	57.96	16 - 46	5.35
4481	HOURS	S	191-62	39.80	13.74	5.21
		£ 3	0.81	0.94	1 -28	2.31
		COMBAT	5.00	5,0G	7.0G	8.00
	AIRPLANES	Σ	#			
	HOURS	S				
		Н 3	:			

### MARINE

6 AIRPLANZS

TRAINING	5,00	6,0G	7.0G	8.00
Σ̄	479.30	56 - 43	4.76	2.27
S	e e			
H 3				

AIRPLANES HOURS

COMBAT	5.00	6.00	7.00	8.30
X	£			
S				
H 3				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO G6-74

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	$\sim$	-		<b></b> _	, ,	- 1	ι

50 AIRPLANES 34525 HOURS

### NAVY

		TRAINING	5.0G	6,0G	7.0G	8.00
50	AIRPLANES	X	664 . 3'7	109.36	12.30	1.83
24385	HOURS	S	333.61	64 - 33	11.00	4.26
		A 3	-0.32	0.54	1.74	3.56

24 AIRPLANES 6122 HOURS

COMBAT	5.00	6.0G	7.0G	8.00
Σ̄	517.35	153.25	22.32	3.87
S	115.06	40 -21	7.81	2.11
H 3	-0.34	0.31	0.19	0.87

### MARINE

8 AIRPLANES

4018 HOURS

TRAINING	5.00	6.00	7.0G	8.00
×	752.88	141-18	16.04	3.43
ទ	##,			
Э 3				

A LRPLANES

COMBAT	5.00	6.00	7.06	8.00
x.				
S				
Н 3			,	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

07-73 IO 06-74

MU	.    -	1-41-

22 AIRPLANES 5738 HOURS

### NAVY

		TRAINING	5.00	5.0G	7.00	8.05	
. 19	AIRPLANES	Χ	102.73	10.36	1.16	0.00	
5149	HOURS	S	95 - 47	16.13	2.24	0.00	
		મુ ૩	1.17	2.03	3.35	g .cc	
		COMBAT	5.00	6.00	7.00	20.8	
	AIRPLANES	Χ	<b>t</b> i				
	HOURS	S					
	L	Я 3					

#### MARINE

3	AIRPLANES
583	HOURS

TRAINING	5.00	5.00	7.40G	8.00
X	372.13	22.18	g . gg	0.00
S	ti t			
₽ 3				
	<del></del>			

	COMBAT	5.0G	5.00	7.00	8.00
AIRPLANES	X	Ē			-
HOURS	S				
	D 3				

MEAN CUMULATIVE COUNTS BER 1000 HOURS

<sup>5</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

<sup>##</sup> INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO G6-74

MUDEL 1H-4F

155 AIRPLANES 161939 HOURS

#### NAVY

	·	RAINING	5 1112	5 70		
		TIVELLIATION	3.00	0.06	7.00	0.00
134	AIRPLANES	X	163.26	18.99	1.68	0.15
124795	HOURS	S	170.29	26.56	2.76	0.58
		Яз	2.19	3.60	2.63	5.89
	4					
	1	COMPOT	C 00	6 66		

9 AIRPLANES 2151 HOURS

COMBAT	5.00	6.00	7.0G	8.00
Χ̈́	566 -64	58.32	3.25	0.74
S	* *			
H 3				

#### MAR I NE

36 AIRFLANES 34994 HOURS

TRAINING	5.00	6.0G	7.0G	8.00
Σ̄	682.91	82.05	6 - 56	0.79
S	408 .28	97.16	11.21	2.18
Э 3	1-44	4 17	4 - 12	4 -69

6.0G

7.05

8.00

COMBAT 5.0G

ALRPLANES X

HOURS

A 3

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

MM INSUFFICIENT DATA IN THIS CATEGORY

#### MUDEL H-4G

14 AIRPLANES 2226 HOURS

Γ	N	A	V	Y	
ł	. •	, ,	•	•	

<u> </u>	<del></del> J			·		
		TRAINING	5.05	5.00	7.05	3.05
14	AIRFLANES	Χ	1074.72	147.85	12.01	3.34
2226	HOURS	S	306 - 73	61.61	5.99	3.30
		A 3	0.57	1.00	1.48	2.21
	,			<u> </u>		
•		COMBAT	5.00	5.0G	7.05	8.00
	AIRPLANES	Σ̈́	n			
	HOURS	S				
		Вз	_			
			L			

#### MARINE

 AIRPLANES
 X
 \*
 5.00
 5.00
 7.00
 8.00

 HOURS
 S
 -</t

	COMBAT	5.00	5.00	7.05	8.86
AIRPLANES	x	ž			
HOURS	S				
	F 3				

MEAN CUMULATIVE COUNTS DED 1000 HOURS

<sup>5</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

<sup>44</sup> INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

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M	()	E	H.	- 4	نی -

16 AIRPLANES 11471 HOURS

#### NAVY

		TRAINING	5.00	6.00	7.06	8.50
16	AIRFLANES	X	2158.26	373.91	43.73	4.87
11471	HOURS	S	500-10	106.91	14.74	3.46
		Э 3	-0.19	-0.04	-0,15	0.37
				· · · · · · · · · · · · · · · · · · ·		
		COMBAI	5.00	6.00	7.0G	8.00
					,	
	AIRPLANES	Ϋ́	¥		, , , ,	0,00
	AIRPLANES HOURS	X S			, , ,	0,00

### MARINE

AIRPLANES X HOURS S	COMBAT	5.00	6.00	7.00	8.00
1 43	X S A <sub>3</sub>	*		7.00	

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- \* STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- AS SKEWNESS OF LOAD RATE DISTRICTION
- NO DATA IN THIS CATEGORIE
- MM INSUFFICIENT DATA IN THIS CATEGORY

OATA FROM 07-73 TO 06-74

MODEL TH-4J

321 AIRPLANES 121658 HOURS

#### NAVY

		TRAINING	5.00	6.00	7.05	ರ.೮೪
304	AIRPLANES	X	330.22	25.11	5.35	1.66
116472	HOURS	S	154 -25	31.59	11-10	6.04
		Э З	1.54	5.13	5.61	8.31
		COMBAT	5.00	5.00	7.00	8.05
	AIRPLANES	Σ̄	. 첫			
:	HOURS	S		·		
	- 1	H 3				

## MARINE

1 !!	inting.					
		TRAINING	5.00	5.00	7.09	8.09
17	AIRPLANES	×	128 - 29	4 - 34	0.00	0.00
5196 HOURS	S	52 .44	3.10	g.cg	6-00	
	₽ 3	-0.23	1.13	0.00	0.66	
		COMBAT	5.00	5,00	7.09	8.00
	AIRPLANES	X	, P			
	наияс	\$				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MUDEL TH-4J

359 AIRPLANES 271800 HOURS

### NAVY

		TRAINING	5.00	6.00	7.06	8.00
340	AIRPLANES	Χ	339.05	44.74	15.07	11.25
26237!	HOURS	S	294.49	263.04	261.03	260.91
		Н 3	9-24	17.94	18.28	18.31
	· .					
		COMBAT	5.00	6.0G	7.00	8.00
	AIRPLANES	Σ̈́	*			·
	HOURS	S				
		<b>В</b> 3		,		

### MARINE

24 AIRPLANES 9429 HOURS

	TRAINING	5.0G	6.0G	7.00	8.00
	Σ̄	412.63	10-66	0.56	0.13
	S	397.98	10.66	G.94	0.31
I	A 3	3.16	2.17	3.11	3.74

	COMBAT	5.00	6.00	7.00	8.00
AIRPLANES	Χ̄	3		ŕ	
HOURS	S	·			,
поска	e A	·			

MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 MOURS

AS SKEWNESS OF LOAD RATE DISTRIBUTION

M NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 TO 06-74

7.0G

13.20

5.0G

8.00

13.20

MODEL H-4M

HOURS AIRPLANES 3074 

NA	V .	
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		TRAINING	5.05
2	AIRPLANES	X	484.43
197	HOURS	S	t: 2
		H 3	

BIRPLANES HOURS

COMBAT	5.00	5.00	7.00	8.00
X	¥.			
S				
H 3				
	X S	X #	X 11 5	X * 5

5,09

48.40

#### MARINE

19 RIRPLANES

2877 HOURS

TRAINING	5.00	5.00	7.00	8.00
X	679.36	135.53	23.11	3.04
S	312,04	102.19	27.64	11.35
H 3	o.59	1.55	1.87	198

5.0G COMBAT 5.00 7.00 X AIRPLANES S HOURS H 3

- COUNTS PER 1000 HOURS

- INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MODEL A-4M

35 AIRPLANES 7628 HOURS

### NAAA

		TRAINING	5.00	6.00	7.00	8,00
10	AIRPLANES	X	1181.35	135.02	13 -56	6.29
952	HOURS	S	幸 ま			
		Э3				
	ŀ					
		COMBAT	5.00	6.00	7.00	8.00
	AIRPLANES	χ	7:			
	HOURS	S	:			
		Аз		•		
•	i	<u> </u>				

### MARINE

	' · · · · · · · · · · · · · · · · · · ·					
<u> </u>		TRAINING	5.00	6.0G	7.00	8.00
33	AIRPLANES	X	979-90	188.56	28.91	8 -63
6676	HOURS	S	332.01	132.78	27.89	8.90
0010	пооко	А 3	0.98	2.88	2.31	1 -75
		COMBAT	5.00	6.00	7.00	8.00

AIRPLANES
HOURS

	COMBAT	5.00	6.00	7.00	8.00
5	x	ŧ			
	S				
	H 3				·

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- \$ STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A. SKEWNESS OF LOAD BATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- HH INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 TO 06-74

	MOL	JEL RH-50	
42	AIRPLANE	S 10540	HOURS

H	V	Y

		TRHINING	3,55	4,05	5,55	5 755
		[KUTKTEG	5,00	, , )	, , ,	0
12	AIRPLANES	Χ	169.85	6.53	0.16	0,00
10508	HOURS	S	71.67	3.51	0.43	3.85
		ર્મ 3	1.78	0.86	4 - 15	0.00
		COMBAT	3.00	4.00	5.00	6.00
1	AIRPLANES	Χ̈́	0.00	0.00	0.00	0.00
32	HOURS	-S	# #			
J	1100110	Ĥ <b>3</b>				
		·				

## MARINE

·	TRAINING	3.0G	4.0G	5,00	6.00
AIRPLANES HOURS	Х Б Н з	<b>b</b>		·	
	COMBAT	3,00	4.0G	5.0G	6.00
AIRPLANIS HOURS	X S H 3	•			·

- MEAN CUMULATIVE COUNTS DED 1000 HOURS
- \$ STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- # NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO G6-74

#### MODEL RA-50

129 AIRPLANES 129308 HOURS

### NAVY

		TRAINING	3.00	-4 · OG	5.06	5.05
129	AIRPLANES	Σ̈́	210.69	14 - 23	1-00	G.15
108443	HOURS	S	118.04	28 - 22	1 -95	0.53
		H 3	2 -84	8 -55	3.26	3 · 33

94 AIRPLANES 20865 HOURS

COMBAT	3.00	4.0G	5.00	6.0C
X	931.07	99.95	13.46	a •ee
S	435.85	70.01	18.99	1.29
A 3	3.15	3.41	6 - 42	3.66

### MARINE

AIRPLANES

HOURS

TRAINING	3.00	4.0G	5.00	5,00
x	•			
S		·	,	
A 3				

A LRPLANES HOURS

COMBAT	3.00	4.0G	5.00	6.0G
x	£			
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H 3			1	

- MEAN CUMULATIVE COUNTS BER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS BER 1000 HOUSE
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 TO 06-74

#### MUDEL H-6H

143 AIRPLANES 25727 HOURS

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	`	TRAINING	4.00	5.05	5.05	7.05
118	AIRPLANES	X	1128,25	357.26	34.81	1 - 72
16979	HOURS	S	309 - 24	115-28	15 - 44	2.07
		Аз	2.22	1.22	1.02	3.99
		COMBAT	4.05	5.00	5.0G	7.05
	AIRPLANES	Χ̈	#			
	หอบสร	S				
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	·	TRAINING	4.0G	5.00	5,00	7,00
46	AIRPLANES	X	964 - 49	260 - 52	17.72	1.34
9640	หวบรร	S	262 - 14	136.82	14.89	2.43
		Э3	0.79	2.14	1 - 75	2-67

		COMBAT	4.05	5.00	5.00	7.09
3	AIRPLANES	X	45.80	22 /90	11.45	0.00
108	HOURS	S	<b>6</b> . 2			t
	1100110	Fi 3				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

As SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

<sup>44</sup> INSUFFICIENT DATA IN THIS CATEGORY

ALL OATA 01-62 TO G6-74

#### MODEL A-6A

415 AIRPLANES 364971 HOURS

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1 1 1	1	V		
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383	AIRFLANES

213970 HOURS

TRAINING	4.0G	5.00	-6.0G	7.00
X	1325.54	424.20	70 . 75	6 - 49
S	449.07	212,26	55.82	8.77
Яз	0 - 46	1.63	3.53	7.24

197 AIRPLANES

38646 HOURS

COMBAT	4.0G	5.00	6.0G	7.0G
, X	1069.84	446.93	108.93	12.84
S	268.88	153 - 49	56 . 49	7.63
А 3	4.30	4 -63	3.34	2.06

### MARINE

186 AIRPLANES

85914 HOURS

TRAINING	4.0G	5.00	6.0G	7.0G
X	892.50	2167-53	29.66	2.63
S	359 .07	125.37	25.74	4.17
Ηз	0.79	1.01	2.15	3.40

77 AIRPLANES

26440 HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
X	457.85	149.86	23.43	1 - 37
S	211.51	110-44	21.43	3.45
A 3	1.11	2.92	3.29	7.09

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

XX INSUFFICIENT DATA IN THIS CATEGORY

OATA FROM 07-73 TO OA<sub>T</sub>74

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1 12 (3)			
141111	7- 1	- F- L	- +-> L.J
ロ・ワン	1 L .		

12 AIRPLANES

1755

HOURS

Γ		Ĥ	V	Ϊ	
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L		:				
		TRAINING	4,00	5.00	5.00	7.05
2	AIRPLANIS	Χ	ე.მე	0.00	g.gg	0.00
41	HOURS	S .	# 2			
		H 3		·		
	i					)
					<u> </u>	
		COMBAT	4.0G	5.00	5.00	7.09
	AIRPLANZS	COMBAT X	4 .DG	5.0G	5.00	7.09
	AIRPLANES HOURS			5.0G	5.00	7.00
·	1	Χ̈		5 x 0 G	5.00	7.01

#### MARINE

		TRHINING	4,06	5.00	5.00	7.
12	AIRPLANES	Σ	82 - 35	5.44	ე .ეგ	0.90
1714	สดบคร	S	f.1.97	4.99	03.0	0.00
		F1 3	1.48	ງ . 99	3.03	0.00

AIRPLANZS HOURG

COMBAT	4.00	5.00	5:00	7.00
X	ž.			
S				
F4 3			,	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- \* NO DATA IN THIS CATEGORS
- HE INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 10 06-74

1	X	_	-	_	_	_	-	 -	-
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	,				• •		. ,	· /	1 1

AIRPLANES 15546 19

HOURS

N	H	V	Y
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2	AIRPLANES
41	HOURS

TRAINING	4.0G	5.0G	6.0G	7.00
X	0.00	0.00	0.00	0.00
S	# 1			
H 3				

AIRPLANES HOURS

COMBAT	4.()G	5.00	6.00	7.0C
X	· •			
S				
J 3				

19 AIRPLANES

15067 HOURS

TRAINING	4.0G	5.00	5.00	7.00
X	65.32	4 - 31	0.22	0.00
S	55.65	4.75	0.53	0.26
H'3 !	1.49	1.24	1.28	4.02

5 AIRPLANES 438 HOURS

COMB	9.7	4.0G	5.00	6.00	7.00
X		10.56	1.51	0.00	0.00
S		¥Ł			
_ b 3	,				

- CUMULATIVE COUNTS PER 1000 HOURS

- INSUFFICIENT DATA IN THIS CATEGORY

ORTA FROM 07-73 TO 06-74

		MODEL	<u>. A-65</u>	
1. 1	AIRPI	LANES	1436	HOUF

M	G	V	7
. ,	: 1	_ v	_'1

		TRAINING	4.0G	5.00	5.00	7.04
11	AIRPLANES	X	1084.58	323.82	34,36.	7.51
1436	HOURS	S	149.00	65.40	16 - 42	11.00
		Э З	-0.63	00.0	1.53	2.62
		COMBAT	4.0G	5.0G	6.00	7.00
	AIRPLANE	Σ̈́	а			
	HOURS	S	İ			
		A 3				
	_		<u></u>		<u>_</u>	

1:17 T 1A -					
	TRAINING	} 4.0G	5.00	6.00	7.00
AIRPLANE	Σ̄	z		-	
HOURS	S				
	H 3				
· ·					
	COMBAT	4.00	5.00	5.80	7.00
AIRPLANE	s X	£			
HOURS	S				
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X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

<sup>#</sup> NO DATA IN THIS CATEGORY

<sup>##</sup> INSUFFICIENT DATA IN THIS CATEGORY

M	Ü		L.	H	 6	B

18 AIRPLANES 10606 HOURS

# NAVY

	:	TRAINING	4.0G	5.00	6.00	7.56
17	AIRPLANES	X	532.39	130.91	20.10	3.38
8685	HGURS	C	137.54	51.08	15.20	5.12
		H 3	-0.28	0.15	9.75	2.02
						<u> </u>
		COMBAT	4.0G	5.06	6.00	7.00
					., .,	
10	AIRPLANES	χ	301.71	91.54	9.41	1.92
10 1921	AIRPLANES HOURS	х s	301.71			

# MARINE

ALRPLANES HOURS

TRAINING	4.OG	5,0G	6.00	7.00
X	Æ		1	
S				
А 3				

	COMBAT	4.0G	5.00	6.00	7.0G
AIRPLANES	χ	Tt.			
HOURS	S				
	H 3				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

<sup>5</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

<sup>\*</sup> NO DATA IN THIS CATEGORY

MM INSUFFICIENT DATA IN THIS CATEGORY

0ATA FROM 07-73 TO 06-74

MUDEL EH-68

35 AIRPLANES 7998 HOURS

-		_	
N	A	V	Y

		TRAINING	4.00	5.06	5.05	7.00
30	AIRPLANES	X	54 -53	5.64	1.04	0.28
7398	HOURS	S	32 - 26	5.29	2.49	0.70
		'A 3	1.33	2.09	5.04	5.34
			<u> </u>			
		COMBST	4.00	5.00	6.0G	7.00
	AIRPLANES	Σ̄	. 11			
	หอบสร	S				
		H 3				

MC	R	I	N	7
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AIRPLANES HOURS

TRAINING	4.00	5.00	5.00	7.00
Σ̈	4			
S				·
H 3		. :		
				<u> </u>

AIRPLANES HOURS

	COMBAT	4.0G	5.09	6.00	7.00
28	X	1			
	5				
İ	₽ 3				

- X MEAN CUMULATIVE COUNTS BER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

MODEL EH-68

37 AIRPLANES 15878 HOURS

NAVY

		TRAINING	4.0G	5.06	5.00	7.00
37	AIRFLANES	X	82.82	12.53	1.79	0.06
15871	HOURS	S	60.87	19.80	5.70	០.5៖
		A 3	3.87	4.35	4 - 77	5.75
		COMBAT	4.0G	5.00	6.00	7.05
1	AIRPLANES	Σ	0.00	a .cc	0.00	0.00
7	HOURS	S	Σť			
		Э <sub>3</sub>				

MARINE

	TRAINING	4.0G	5.00	6.06	7,00
AIRPLANES	X	9			
HOURS	<u>,</u> S				
	<del>В</del> 3				
	COMBAT	4.0G	5.00	6.00	7.00
AIRPLANES	X	ŧ			
	5				

HOURS

A 3

MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

TO SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

<sup>##</sup> INSUFFICIENT DATA IN THIS CATEGORY

ORTH FROM 07-73 TO G6-74

	MODEL	H-5C	
10	AIRPLANES	1275	HOURS

NHV	Υ
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		TRHINING	4.00	5,05	5.05	7.00
10	AIRPLANES	Х	893.63	232 .00	17.15	2.11
1275	HOURS	S	<b>₽</b> #			
		Ħ 3				
		COMBAI	4.0G	5.00	5.00	7.00
	AIRPLANZS	Σ	ŭ			
	หวบคร	S				
	•	A 3	·			,
	•		<u></u>	·		

1 1					
	TRAINING	4.0G	5,00	6,00	7.00
AIRPLANES	, X	•			
HOURS	S				
1100110	H 3				
	COMBAT	4.00	5.00	5.00	7.00
ATRPLANES	X	£	-		
HOURS	5			}	
1100110	r)			1	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

	MODEL H-60	01-62	10	36
12	AIRPLANES 4163 HO	ŲRS		
			_	

	1/	H	V	Ý
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•		TRHINING	4.0G	5.00	5.00	7.05
12	AIRFLANES	Х	597.76	150.80	10.03	0.94
3253	HOURS	ຣ	134.83	45.44	5.85	a .63
,		.H 3	g.78	1.28	0.17	-0-05
		COMBAT	4.0G	5.00	6.0G	7.00
3	AIRPLANES	Σ̄	593 - 18	316.07	65.16	9.74
304	HOURS	S	7 8			
		H 3	·	·		

# MARINE

AIRPLANES

HOURS

TRAINING	4.0G.	5.00	6.00	7.00
Σ̈́	7			
S			·	
H 3				
			ļ	

AIRPLANES HOURS

	COMBAT	4.0G	5.00	6.00	7.00
S	χ	1			
	S			`\	
	A <sub>3</sub>			,	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AM INSUFFICIENT DATA IN THIS CATEGORY

#### RCS NADC 13920-2

OATA FROM 07-73 to 06-74

	MUDEL	KH-5D	
53	AIRPLANES	12150	HOURS

	V	A	V	Y
!	1	$\Box$	٧	-

		TRAINING	4.05	5.05	5.00	17.05
53	AIRPLANES	X	27.28	3.75	0-15	0.00
12160	HOURS	S	35.41	2.77	0-40	22.2
	·	Э 3	5.82	2.80	4 - 72	S.83
	Ī	COMBAT	4.0G	5.00	6.00	7.00
	•					, , ,
	AIRPLANES	Χ̈	<del>.</del>			, , , , ,
	AIRPLANES HOURS					, , , , ,

HLING					
	TRAINING	4.05	5.00	5.00	7.00
AIRPLANES	Σ̄	¥			
HOURS	S				·
	Э З				
•					
	ÇOMBAT	4.06	5.00	5.0G	7.0G
AIRPLANES	x	ŧ			
HOURS	S				
	H 3				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

<sup>##</sup> INSUFFICIENT DATA IN THIS CATEGORY

MODEL KH-6D

61 AIRPLANES 42473 HOURS

_	-		
N.	6	$\overline{\chi}_I$	7
-1		W	. ) .
; v	1 1	٧	٠,

		TRAINING	4.00	5.00	6.00	7.00
61	AIRPLANES	X	33.52	4 - 56	0.60	C.11
33848	HOURS	S	51.12	6 : 55	1.21	0.37
		Н 3	4.43	4 -65	3.86	5.61
•						
		COMBAI	4,0G	5.00	5.0G	7.00
32	AIRPLANES	Σ	21.61	3.62	0.87	0.00
8625	HOURS	S	16 -26	4 - 17	1.70	0.00
		A 3	1.12	2.40	3.48	0.00

# MARINE

AIRPLANES

HOURS

TRAINING	4.OG	5,00	6,00	7.00
Э Э Х	<b>T</b> :			
			L	

ATRPLANES HOURS

COMBAT	4,0G	5.00	6.00	7.0G
x	t.			
S				
H <sub>3</sub>				

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- MM INSUFFICIENT DATA IN THIS CATEGORY

#### RCS NADC 13920-2

OATA FROM 07-73 TO 06-74

MUDEL H-BE

73 AIRPLANES 15775 HOURS

# NAVY

		TRAINING	4.00	5.05	5.05	7.05
7!	AIRPLANES	Х	1344.51	424 - 45	59.03	5.63
16453	HOURS	S	463.01	172 -90	38.24	5.59
		H 3	1.02	1.05	3.15	3.12
		COMBAT	4.00	5.00	6.CG	7.00
	AIRPLANES	Σ̄	T:			
	HOURS	S				
		Яз				

	_	_		_	-
M	9	R	I	N	#

		TRAINING	4.0G	5.00	6.00	7.00
3	AIRPLANES	Χ̈	734.73	178.02	69.29	0.00
315	HOURS	5	e a			
		A 3				ħ.

	COMBAT	4.0G	5.00	5.00	7.00
AIRPLANES	,	ŧ			
HOURS	S				
/40082	FI 3				

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AS INSUFFICIENT DATA IN THIS CATEGORY

_	 _					_
M		E	LA	-	5	E

79 AIRPLANES 25922 HOURS

# NAVY

<b>L</b>	<del></del>					
		TRAINING	4.0G	5.00	6.00	7.05
77	AIRPLANES	X	1172.07	324.60	43.05	3 . 75
25605	HOURS	S	452 .68	150-41	33.03	5.01
		Яз	1.22	1.16	2.95	2.86
العراب الم المجاهرات المجاهرات	2					
		COMBAT	4.0G	5.00	6.00	7,00
	AIRPLANES	Σ̄	#			·
•	HOURS	5				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Яз				
		L				

M	$\cap$	$\Box$	T	N.I	4
	H	$\Box$	L	11	4

		IRAININO	4 OG	5.00	5.00	7.00
3	AIRPLANES	X	734.73	178-02	69.29	a.co
317	HOURS	S	<b>新</b> 市		·	
317	1150110	H 3			i .	;

	COMBAT	4.0G	5.00	6.00	7.00
AIRPLANES	x	£			
HOURS	5				
биосп	H 3				

- MEAN CUMULATIVE COUNTS BER 1000 MOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 MOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- # NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

ORTH FROM 07-73 TC 06-74

MODEL A-7A

77 AIRPLANES 17257 HOURS

### NHVY

		TRAINING	5.00	5.00	7.09	8.00
77	AIRPLANES	, <b>X</b>	904.04	242.60	29.04	1.66
เว็บวล	HOURS	S	113.84	109.54	38.58	2 - 35
		ΗЗ	ธ.ถว	2.83	7.13	5.75
	(					
		COMBAT	5.00	5.00	7.00	8.00
2	AIRPLANES	Σ	1236 .92	109.95	0.00	0.00
2 85	AIRPLANES HOURS	x s	1236.92	189.95	0.00	a.cc

HAKTNO					
	TRAINING	5.00	5.00	7.00	8.00
AIRPLANIS	X	<b>t</b> .			
HOURS	S				
	Э 3			-	
,					
	COMBST	5.00	5.00	7.00	8.00
AIRPLANES	x	ē.			
HOURS	S			· \	
	H 3				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

AS SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

AR INSUFFICIENT DATA IN THIS CATEGORY

MODEL A-7A

194 AIRPLANES 262544 HOURS

N	A	V	Y

	,	TRAINING	5.00	6.06	7.0G	8.00
194	AIRFLANES	X	1097.57	219.20	23.43	2 - 25
197869	HOURS	S	431.42	110-47	21.31	2 -84
		А з	0.26	0.72	2.79	1.96
		COMBAT	5.00	6.0G	7.0G	90.8
133	AIRFLANES	X	765.97	242.17	32.86	2.62
64675	HOURS	S	157.84	77.57	15.90	2.44
04073	1130110	Э3	0.21	1.61	0.86	1.77
		,				

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					·
	TRAINING	5.00	6.0G	7.0G	8.00
A IRPLANES	$\bar{x}$	2			
HOURS	S			`	
ниоко	H 3				
	COMBAT	5.00	6.00	7.89	8.09
AIRPLANES	x	ŧ		·	
HOURS	S				
פאטנה	Ha				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- As SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

ORTA FROM 07-73 TO C6-74

MODEL A-16

82 AIRPLANES 19775 HOURS

#### NAVY

		TRAINING	5.05	5.05	7.55	5.00
82	AIRPLANES	Х	981.54	239 - 12	20.66	÷.20
19775	HOURS	S	310.55	122:09	26.05	10.17
		Я 3	1.02	1 - 98	6.14	5.35
		COMBAT	5.00	5.00	7.00	8.09
	AIRPLANES	Σ	Τ:			
	HOURS	S				
٠		А 3				

	TRAINING	₽ 5.0G	6.00	7.00	8.00
AIRPLANE	Σ̄	,			
HOURS	S				
	Яз				
	COMBAT	5.00	5.00	7.00	8.00
AIRPLANS	, X	£			
HOURS	S			·	
7.55.16	₽ 3				

MEAN CUMULATIVE COUNTS BER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD BATE DISTRICT

<sup>&</sup>quot; . NO DATA IN THIS CATEGORY

MA INSUFFICIENT DATA IN THIS CATEGORY

#### RCS NADC 13920-2

ALL DATA 01-62 TO 06-74

MODEL A-78

107 AIRPLANES 52295 HOURS

# NAVY

		TRAINING	5.00	5.00	7.00	8,00
106 4	AIRPLANES	X	1037.13	281.29	32 . 25	4 .55
S2903 H	HOURS	S	383.68	154.25	41.05	12.29
		∴ H 3	1.36	1.39	4 - 16	4 - 71

28 AIRPLANES 9392 HOURS

COMBAT	5.00	6.00	7.0G	8.00
Σ̈́	1321.19	428.20	56.77	4.01
S	346.79	118.41	33.00	4.54
Яз	-0.00	0.36	3.00	3.59

# MARINE

AIRPLANES

HOURS

TRAINING	5.00	6,0G	7.00	8,00
X	#			
S				
H 3			,	

AIRPLANES

	COMBAT	5.0G	6.00	7.0G	8.0G
5	X	£			
	S		·	. ,	
	H 3				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- H NO DATA IN THIS CATEGORY
- HH INSUFFICIENT DATA IN THIS CATEGORY

#### MODEL A-70

30 AIRPLANES 12471 HOURS

# NAVY

		TRAINING	5.05	5.00	7.06	8.00
<b>3</b> 0	AIRPLANES	X	904.60	144.65	16 - 57	3.7%
12471	HOURS	S	304.12	75 - 56	16 - 42	7.09
		H 3	1.47	3.20	2.71	2.87
			'	1		i

	TRAINING	5.00	5.00	7.00	8.00
AIRPLANES	X	*	·		
HOURS	S				
1100.10	H 3				·
	COMBST	5.00	5.0G	7.00	8.09

	COMBST	5.00	5.00	7.00	8.00
AIRPLANES	X	£			
HOURS	S				
HUUKB	된 3				

MEAN CUMULATIVE COUNTS PER 1000 HOURS

<sup>5</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

MODEL A-70

36 AIRPLANES 27714 HOURS

TRAINING

# NAVY

		_		The second lives and the second	<u> </u>	
35	AIRPLANES	X	822.95	137.58	13.52	2.83
20127	HOURS	5	244.82	69.24	14.62	5.47
		Э 3	0 - 76	2.86	3.18	2 - 37
		COMBAT	5.00	6.06	7.0G	8.00
22	AIRPLANES	X	660,69	151.23	17.38	2.11
7587	HOURS	ຣ	175.62	43.50	18.49	12.62
		Яз	1.49	0.70	3.53	4.31
	1					ŧ

5.00

5.0G

		-			7
M		R	Τ	N	丰
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	TRAINING	5.0G	6.0G	7,00	8.00
AIRPLANES	×	ŧ .		-	
HOURS	S				
,,,,,,,,	H 3				
- 1					
	COMBAT	5.00	6.00	7.00	8.00
AIRPLANE	, Ā	*	·		
HOURS	S				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

F 3

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

<sup>#</sup> NO DATA IN THIS CATEGORY

<sup>##</sup> INSUFFICIENT DATA IN THIS CATEGORY

0818 FRON 07-73 TO 06-74

MUUEL H-7E

152 AIRPLANES 38071 HOURS

# NAVY

	<del></del>					A Company of the Comp
		TRAINING	5.00	5.05	7.UG	8.00
152	AIRPLANES	X	714.33	89.39	5.38	£i.i
38071	HOURS	S	378.14	33.75	5.72	2.76
		H 3	7.07	1.75	4.60	9.45
	4					
		COMBAT	5.0G	5.00	7.0G	8.00
	AIRPLANES	Σ̄	eř.			·
	HOURS	S				
		H 3				
	· L		1			

HHILLING.					
	TRAINING	5.0G	5.00	7.05	8.00
AIRPLANES	Σ̈́	7		·	
HOURS	S				
	£1-3				
	COMBAT	5.00	5.00	7.00	8.00
AIRPLANE:	χ̈	£			
HOURS	S			`:	
	F <del>1</del> 3			,	

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

M NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

MODEL A-7E

AIRPLANES 85495 182

HOURS

182 AIRPLANES

77671 HOURS

	TRAINING	5.00	6.00	7.0G	8.05
3	X	783.08	98.52	5.25	G -69
	S	351.71	45 <b>.98</b>	5.37	2.14
	Н 3	4.02	1 -36	3.34	B.43

34 AIRPLANES

7824 HOURS

COMBAT	5.00	6,00	7.0G	8.0G
X	315.36	62.65	4.06	0.67
S	61.50	20.35	2.97	1.09
H 3	0.00	0-23	1.54	4.20

# MARINE

AIRPLANES

HOURS -

	0.00	6.00	7.0G	8.00
Σ̈	<b>t</b>			
S				
Яз				

AIRPLANES HOURS

	COMBAI	5.00	6.00	7.00	8.00
3	X	¥			
	5			٠,	
	th 3			1	

- MEAN CUMULATIVE COUNTS PER 1000
- CUMULATIVE COUNTS PER 1000 HOURS
- LOAD RATE DISTRIBUTION
- IN THIS CATEGORY
- INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 TO 06-74

:	MUUTA	. <u>L-ZH</u>	4
7	AIRPLANES	2483	HOURS

N		17	Y
1.3	; ;	V	1

		TRAINING	2.0G	2.56	3.60	3.50
7	AIRPLANES	X	4.91	1-11	0.48	0.00
2483	HOURS	S	9 72		,	
		મ		·		·
		COMBAT	2.0G	2,50	3.00	3.53
	AIRPLANES	COMBAT -	2.00	2.50	3.00	3,53
	AIRPLANES HOURS			2,50	3.00	3.53

# MARINE

	TRAINING	2.00	2.50	3.00	3.50
AIRPLANES	Σ̈́	<del>91</del>			
ноикѕ	S				
	A 3				
·			·		
	COMBST	2.0G	2.5G	3.0G	3,50
ı					

AIRPLAMES

	COMBST	2.00	2.5G	3.00	3.50
:s	X	ŧ			
	S		·		
	A 3				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- # NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

MODEL C-2A

15 AIRPLANES 42893 HOURS

# NAVY

		TRAINING	2.06	2.50	3.06	3.56
15	AIRFLANES	Х	53.59	16-12	es. 9	1.66
42893	HOURS	S	61.84	27.33	13.09	3.94
		ВЗ	2.09	2.13	2.03	1.78
	1					
		COMBAT	2.06	2.5G	3.00	3.50
	AIRPLANES	Χ̈	#	·		
	HOURS	S	,			
		H 3		·		
	•				<del></del>	

	TRAINING	2.00	2.5G	3.00	3,50
AIRPLANES	X	. <b>1</b>			
HOURS	S				
\ \	H 3				
•					
	004007	0 00	0		

	COMBAT	2.00	2.50	3.00	3.50
AIRPLANES	x				÷
HOURS	S			}	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A 3			,	

- X MEAN CUMULATIVE COUNTS BED 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 MOURE
- AZ SKEWNESS OF LOAD RATE DISTRIBUTION
- W NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

OATA FROM 07-73 TO 06-74.

MUDEL F-4B

124 AIRPLANES 18117

18117 HOURS

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, ,	1 1	V	٠,

		TRAINING	,4 . O.G	5.00	5.06	7.05
86	AIRPLANES	χ̈́	2333.64	895.85	290.20	69.95
9885	HOURS	S	614.17	294.93	137.37	39.27
		£ 4	0.83	1.36	1.37	2 ,53
	1					
		COMBAT	4.00	5.00	6.00	7.00
	AIRPLANES	X	:			
	HOURS	S				
		A 3				
	Ĺ					<u> </u>

M	$\mathcal{H}$	R	I	N	5
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	17 1 N G					
		TRAINING	4.06	5.00	6.CG	7.00
45	AIRPLANES	X	4753.39	1802.38	468.85	104.48
8031	HOURS	S	1085.32	451.459	144.70	49 - 12
		H 3	0.77	0.49	1.06	2.90
	•					
		COMBAT	4.0G	5,00	5.00	7.00
-1	AIRPLANES	x	1327,20	528 - 46	143.22	55.07
198	HOURS	S	9E 7I		· ·	
	,	Аз			i.	

MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

H NO DATA IN THIS CATEGORY

MM INSUFFICIENT DATA IN THIS CATEGORY

MOUEL F-48

AIRPLANES 854458 HOURS 611

	•	TRAINING	4.00	5.00	5.00	7.01
573	AIRPLANIS	Х	1578.45	645.13	.180.93	43.36
439683	HOURS	§ .	1098.02	497.40	205.89	74 .52
		В 3	2.06	2.42	3.73	5.87
		OCHDOT		f: 00	A 0.0	-3 /3/
		COMBAI	4.0G	5.00	6.00	7.06
291	AIRPLANES	Σ̈́	1137.73	405.31	129.20	31.32

108405 HOURS

COMBAT	4,0G	5.00	6.00	7.05
Σ̈́	1137.73	405.31	129.20	31.32
S	372,90	132.70	67.31	31.02
H 3	2.98	1.94	4.10	8 - 73

# MARINE

334 AIRPLANES

199645 HOURS

TRAINING	4.0G	5.0G	6.00	7.9G
Σ̄	2289,66	740.20	181.58	40.16
S	1188.58	517.98	191.77	60 (67
H 3	1.27	1.69	2.19	3.46

226 GRIRPLANES 106735 HOURS

COMBAT	4.0G	5.06	6.06	7.00
, Ž	2221.18	864.39	225.90	47.53
S	695.10	341.03	155 - 65	51.23
H 3	1.47	1.22	2.23	4.40

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- LOAD RATE DISTRIBUTION
- IN THIS CATEGORY
- INSUFFICIENT DATA IN THIS CATEGORY

0ATA FROM 07-73 TO 06-74

MUDEL RE-46

25 AIRPLANES 4174 HOURS

# NAVY

	TRAINING	4.05	<u> ५००</u> ५	5.00	7.00
AIRPLANES	Χ	.1	_		
HOURS	S				
	H 3				
1					
	COMBAT	4.00	5.00	5.00	7.00
AIRPLANES	Σ	4			
	S				
HOURS					1

<u> </u>	·	TRAINING	4.06	5.00	5,00	7.09
25	AIRPLANES	Σ̈́	644.30	225 - 32	100.85	55 42
4174	HOURS	S	486 - 75	235 59	134.61	82.08
4.74 HOOKO	1100/10	£ B	3.84	3.98	4.01	4.02
		COMBOT	4 00	r 00	C CC	7 00

AIRPLANES	
HOURS	

COMBAT	4 .OG	5.00	5.00	7.00
χ	ŧ			
S			`	
H 3			i 1	

MEAN CUMULATIVE COUNTS PER 1000 HOURS

<sup>\$</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

As SKEWNESS OF LOAD PATE DISTRIBUTION

<sup>\*</sup> NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

MODEL RF-46

45 AIRPLANES 57009 HOURS

# NAVY

	TRAINING	4.0G	5.00	5.00	7,00
AIRPLANES	X	7			
HOURS	ຣ				
	Э 3				
	COMBAT	4.0G	5.00	6.00	7.00
AIRPLANES	Ϋ́	r.			
HOURS	S			į	

		TRAINING	4.0G	5.00	5.00	7.00
46	AIRPLANES	x	378.29	94.87	22 39	6.54
48994	HOURS	S	287.45	111.12	45.88	25.84
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Э 3	1.56	2.90	4 - 36	5.56
						L

	L
16	AIRPLANES
8015	HOURS

COMBAT	4.00	5,06	6.00	7.09
x	1087.24	210.75	41.81	8.94
5	405+94	78 - 46.	26.06	5.37
. <del></del>	1.58	1.30	2.18	1.10

MEAN CUMULATIVE COUNTS BER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

W NO DATA IN THIS CATEGORY

AR INSUFFICIENT DATA IN THIS CATEGORY

#### RCS NADC 13920-2

OATA FROM 07-73 TO O6-74

MODEL F-4J

305 AIRPLANES

67804

HOURS

# NAVY

533	AIRPLANES
51917	HOURS

TRAINING	4.0G	5.00	6.00	7.05
X	1913.22	715-25	191.84	38.03
S .	1245.40	501.34	157.12	4427
H 3	-U.16	G -30	1.3:	3.05

3 AIRPLANES

COMBST	4.00	5.00	5,00	7.00
Σ̈́	2559.96	1016.13	140.92	17.67
5	2. 2			
H 3				

# MARINE

54	AIRPLANES
14980	HOURS

TRAINING	4.JG	5.00	6.00	7.00
χ̈́	3782.95	1311.03	339.86	73.34
S	766,78	349.04	147.04	48.67
H 3	0.35	1.03	1.76	2.57

11 AIRPLANES

	COMBAT	4.00	5.0G	5.00	7.00
S	χ	2673.33	a79.06	315.24	74 34
	S	320.93	112.01	86.91	29.25
	F 3	ე. 9ე	S - 70	1.40	1.38

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- \$ STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- \* NO DATA IN THIS CATEGORY
- MM INSUFFICIENT DATA IN THIS CATEGORY

MUUEL F-4J

463 AIRPLANES 437687 HOURS

# NHVY

		TRAINING	4.05	১১০৮	5.05	7.00
430	AIRFLANES	Χ	3143.41	1187.19	367.38	98.83
253457	HOURS	S	1702.81	815.29	327.51	104.55
		H 3	0.89	1.24	2.04	2.89

177 AIRPLANES

53694 HOURS

COMBAT	4.0G	5,00	6.05	7.05
Σ̈	1118.00	458 - 21	137.81	34.71
S	341.12	157.31	64 - 39	36.91
A 3	1482	2.85	2-67	4 - 36

# MARINE

180 AIRPLANES

- 120650 HOURS

TRAINING	4.0G	5.00	6.00	7.00
Χ̈́	4710.91	1806.56	581.89	164.61
S	1545.56	651.60	296 - 39	116.16
H 3	1.07	1.09	1.08	1.55

49 FIRPLANES

COMBAT	4.OG	5.00	6.OG	7.00
x	2809.31	13/11-54	411.29	76 - 18
S	620 70	264 -53	170 -95	47.61
H 3	2.54	2.24	1.87	1.61

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- W NO DATA IN THIS CATEGORY
- HH INSUFFICIENT DATA IN THIS CATEGORY

#### RCS NADC 13920-2

OATA FROM 07-73 TO 06-74

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• ^ <i>/</i>	1636			4 1
'	!!!!!	1 1	7	- ZE IM
				- I N

55 AIRPLANES 9934 HOURS

# NAVY

	,	TRAINING	4.00	5.00	5.00	7.09
43	AIRPLANES	X	2368-64	1160.26	448.69	110.46
5371	HOURS	S	514.14	233.60	134 26	41.08
		H 3	1.37	C -64	1.63	1.39
	•					<u> </u>
	. [	COMBAT	4.0G	5.00	5.00	7.00
5	AIRFLANES	COMBAT X	4.0G	5 - 0 C 735 - 32	5.0G 253.34	7.00 71.02
5 !12	AIRPLANES HOURS		,			

# MARINE

' ' '	1. \ 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					:
	í	TRAINING	4.0G	5.00	5.00	7.00
13	AIRPLANES	χ	4602-03	2017.09	660.04	113.32
4451	HOURS	S	1131.85	653.08	258 - 42	63.95
		H 3	0.67	1.34	0.98	1 -37
	7					
		COMBAT	4.0G	5.00	5.00	7.00
	5.05	$\bar{x}$	*			

AIRPLANES HOURS

L	COMBAT	4.0G	5.00	5.00	7.00
	χ	*			
	S				
L	H 3				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

MUDEL F-4N

56 AIRPLANES 10583 HOURS

### NAVY

		TRAINING	4.UG	5.00	5.05	7.50	
.1.4	AIRPLANES	Χ	2713.31	1389-53	584 - 26	141-13	
6020	HOURS	S	476 - 39	262 -92	166 -95	<b>56</b> - <b>68</b>	
		B 3	t -06	0-94	1.39	2.25	
	1						
	4						
		COMBAT	4.0G	5.00			
		CONDA:	4,00	3.05	6.0G	7.00	
5	AIRPLANES	X X	1332.01	736 - 32	259 .34	7:06	
5 112	A IRPLANES HOURS						
		Σ̈́	1332.01				

# MARINE

18 AIRPLANES

4451 HOURS

TRAINING	4.0G	5.00	6.0G	7.00
Χ̄	4602.03	2017.09	66G-C4	118.82
S	1181.85	658.08	258 - 42	63.95
A 3	0.67	1.34	0.98	1 -37

!	COMBAT	4.0G	5.00	6.00	7.08
AIRFLANES	χ	ď		·	
HOURS	S		8		
11301/3	F 3	·			

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- W NO DATA IN THIS CATEGORY
- MM INSUFFICIENT DATA IN THIS CATEGORY

ORTH FROM 07-74

#### MODEL RE-85

14 AIRPLANES 2853 HOURS

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N	A	V	Y

	<del></del>					
		TRAINING	4,0G	5.05	5,05	7.00
14	AIRPLANES	X	210.71	41.24	11.37	0.65
2853	HOURS	5	138.96	27.83	12.63	0.78
		Н 3	1.59	1.41	2.35	1.65
	i					
		COMBAT	4.0G	5.00	5.0G	7.00
	AIRPLANES	Ϋ́	::			
	HOURS	S				
	•	Яз				
	` <b>L</b> .					

M	A	<del>R</del>	F	N	-
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TRAINING 4.0G 5.0G 6.0G 7.0G

RIRPLANZS X

HOURS

Fig.

	COMBAT	4.00	5.00	5.00	7.00
AIRPLANES	X	¥			
HOURS	5			\ ;	
1100.00	F 3			: !	

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1999 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- MA INSUFFICIENT DATA IN THIS CATEGORY

#### RCS NADC 13920-2

ALL DATA 01-62 TO 06-74

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35 AIRPLANES 28576 HOURS

NAVY				
	N	A	$\bigvee$	Y

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		TRAINING	4.0G	5.00	6.00	7.00
35	AIRFLANES	χ	441.90	128,65	30.52	4.28
27384	HOURS	S	219.01	74.21	26 - 41	7.73
		Ηз	0.24	0.54	1.54	4 - 70
		COMBAT	4.0G	5.00	8.00	7.0C
11	AIRFLANES	Σ̄	1481.32	391.60	63.37	8.37
1192	HOURS	S	387.16	90.25	26 .29	5.38
		А 3	1-13	1.89	1.75	1.30

MARINE

111 1111					
,	TRAINING	4.0G	5,00	6.00	7,00
A IRPLANES	x	¥	·	;	
HOURS	S				
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1					
	COMBAI	4.0G	5.00	6.00	7.00
AIRPLANES	x	¥			
หวบสร	S	i.			
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X MEAN CUMULATIVE COUNTS PER 1000 HOURS

5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

#### RCS NADC 13920-2

OATA FROM 07-73 TO 06-74

MUDEL F-8H

47 AIRPLANES 9071 HOURS

#### NHVY

		TRAINING	4.06	5.05	5.55	7.55
47	AIRPLANES	X	2133.73	639.28	1C9.71	9.63
9971	HOURS	S	505.03	219,20	50-02	7.31
		<u>н</u> 3	1.93	2.50	3.10	3.42
		COMBAT	4.0G	5.00	6.00	7.00
	AIRPLANES	X	<b>?</b> 4	. ,		
	HOURS	S	,			İ
		H 3				

HRINT.					
	TRAINING	4.00	5.00	5.09	7.00
AIRPLANES	X	ů			
HOURS	S				
	F4 3	• ,			
,					
	COMBAT	4.DG	5.00	5.00	7.00
AIRPLAMES	χ̈́	ž			
HOURS	S		·		
	<sub>E</sub> 3				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

AR INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 10 06-74

MODEL F-8H

AIRPLANES 75748 HOURS 85

# NAVY

		TRAINING	4.06	5.06	<b>5</b> + 0 G	7.00
86	AIRPLANES	Х	1630-21	508.04	96.98	12.33
62528	HOURS	S	556 -21	195 -62	44-90	в.63
		Э3	C-43	0.95	1.01	1.79
		,				
		COMBAT	4.0G	5.00	6.0G	7.00
		⊽		105 51	4.4	6 . 6

45 AIRPLANES

13220 HOURS

COMBAT	4.06	5.00	6.00	7.0G
X	711-67	197.56	41.43	E-17
S	254 . 48	82 .47	19-81	4.43
H 3	2.35	2.77	2.28	1.32

# MARINE

AIRPLANES

HOURS

TRAINING	4.00	5.00	5,00	7.00
Χ̈	#			
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			L.	L

COMBAT 5.00 6.00 4.0G 7.00 X AIRPLANES S HOURS H 3

CATEGORY

DATA FROM 07-73 TC S6-74

MUDEL F-8J

AIRPLANES 13082

HOURS

N		17	Y
' \	11	٧	'

		TRAINING	4.ÜG	5.00	5.00	7.00
72	AIRPLANCS	X	2239.14	709.30	123.28	17.49
12937	HOURS	S	716.52	343.11	88.70	43.05
		H 3	1.03	1.37	2.92	7.73
	_					
	ſ	C) () A ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (				
		COMBAT	4,06	5.00	5.0G	7.00
5	AIRPLANES	COMBA? Ā	4 , DG 594 .97	5.0G 33.01	5 . GG e.ss	7.00 e.ss
5 !45	AIRPLANES HÖURS					

AIRPLANES HOURS

	TRAINING	4.00	5.05	5.00	7.00
;	Χ̈	•			
	S				
	H 3				
L					

BIRCLANES HOURS

	COMBAT	4.00	5.00	5.00	7.00
s	X	,			
	S				
	9 3				

- OF CUMULATIVE COUNTS PER 1000 HOURS
- LOAD RATE DISTRIBUTION
- IN THIS CATEGORY
- INSUFFICIENT DATA IN THIS CATEGORY

MUDEL F-8J

134 AIRPLANES 114049 HOURS

### NAVY

		TRAINING	4.0G	5.05	5,05	7.00
134	AIRPLANES	Χ	2144.85	664 -55	124.81	15.22
86942	HOURS	S	714.37	278.02	64 - 10	19.17
		A 3	0.76	0 -69	1.16	7.42

93 AIRPLANES 27107 HOURS

COMBAT	4.0G	5.00	6.00	7.00
Σ̄	769 -22	258 - 05	55 - 14	9.34
S .	318-19	138.03	35.51	3.12
Эβ	2 -48	2.94	2.90	3.75

# MARINE

AIRPLANES

TRAINING	4.0G	5.00	6.00	7.00
Σ	*		•	
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H 3	. :			

A (RFLANES HOURS

COMBAT	4.0G	5.00	6.00	7.00
χ	<b>#</b> .			
S			·	
A 3				

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- \$ STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AM INSUFFICIENT DATA IN THIS CATEGORY

ORTH FROM: 07-73 TO 06-74

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35 AIRPLANES 5071 HOURS

### NAVI

		TRAINING	4.05	5.05	5.05	7.00
35	AIRPLANIS	Χ	2299.70	730.46	166.75	19.12
4999	HOURS	S	366.87	128 - 28	42.43	9.76
		H 3	0.81	1.04	1.34	3.29
	4			,		
		COMBAI	4.0G	5.00	5.0G	7.80
!	AIRPLANES	X	0 00	0.00	C.SS	0.00
80	HOURS	S	: :			
		H 3			·	

### MARINE

FIRPLANES

HOURS

TRAINING	4.0G	5.00	5,5G	7.00
X	£		·	
5				
[ <del>]</del> 3				

AIRPLANES

	COMBAT	4.00	5.00	5.00	7.00
S	χ	#:			
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	F 3	·		,	

A MEAN CUMULATIVE COUNTS PER 1000 HOURS

STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

<sup>44</sup> INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MODEL F-8K

74 AIRPLANES 38812 HOURS

### NHVY

7.4	AIRPLANES
38700	HOURS

TRAINING	4.0G	5.00	6:0G	7.00
X	1670.30	518.91	110.86	13,27
ទ	775.33	2,57 ,58	61.90/	B .88
H 3	£0.1	2 - 38	3.71	1.75

3 AIRPLANES

COMBAT	4.0G	5.00	5.00	7.00
X	4194.50	1576.02	208.63	24.85
ຣ	# 1		ť	
£ 3			·	

### MARINE

AIRPLANES HOURS

TRAINING	4.0G	5.00	6.00	7.00
Χ̈	t			
S				
H 3				

COMBAT	4.0G	5.00	5.00	7.00
X	1			
S		·	,	
A 3			i	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- MM INSUFFICIENT DATA IN THIS CATEGORY

OATA FROM . 07-73 TO 06-74

<del></del>	MUDal		ζ) L
0	AIRPLANES	O	HOURS

### NHVY

	TRAINING	4.05	5,05	6.00	7.012
AIRPLANES	Х	3		· · · · · · · · · · · · · · · · · · ·	
HOURS	ຮ				
	£ 3		4	, 1	
	COMBAI	4.0G	5.00	6.00	7.0G
AIRPLANES	Σ	7			
HOURS	S				
	A 3				

### MARINE

AIRPLANZS HOURS

TRAINING	4.00	5.00	.6 .00	7.00
Σ	2		,	
S				·
. <del>.</del> 3				
	, , , , , , , , , , , , , , , , , , , ,		· .	

	COMBAI	4.00	5.09	5.00	7.00
	X	ž			
l	S				
	H 3				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

H NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

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	M	U	ij	<u></u>	L.	}-	 ਤ	

36 AIRPLANES 9856 HOURS

### NAVY

		TRAINING	4.05	5.06	p.772	7.55
30	AIRPLANES	Χ	1711-41	498.06	122.95	19.19
9856	HOURS	S	427.64	204-07	66 -52	13.14
		H 3	០.ខរ	ប.84	1.31	1.17

AIRPLANES

COMBAT	4.00	5.00	6.00	7.00
Χ̄	*			
S				
A 3			·	

# MARINE

AIRPLANES

HOURS

TRAINING	4.0G	5.00	6:00	7.00
X	<u>*</u>			
S				
H 3				

COMBAT	4.00	5.00	6.00	7.00
x	£	·		
S			`	
₽ 3			; I	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 TO 06-74

	MODEL	UF-8L		J
AIRPL	ANES	508	HOURS	

# NEVY

5

		TRAINING	4.05	5.00	5.00	7.00
5	BIRPLANIS	X	452 . 19	:07.08	11.33	a . 96
508	หอบักร	S	ft. ž	·		
		ક સ				
	1					
		COMBAI	4,00	5.00	5.00	7.85
•	AIRPLANZS	Σ̈́	AL.	`		
	HOURS	S				
		F 3				

# MARINE

FIRPLANZ
HOURS

	TRAINING	4.0G	5.09	5.00	7.00
ΞS	Σ̄	, P			
	S	·			
	H 3				
	Ŋ 3				

	COMBAT	4,86	5.00	5.0G	7.0G
3	x	ř			
	S				
	H 3				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

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ı	j	- 1	1	<u>ر</u>	,	t	,	i.		Ł.		1		,	١		~	

5 AIRPLANES 1099 HOURS

NI	V	Y
	٧	1

•		TRAINING	4.00	5.00	6.00	2.00
5	ALRPLANES	Х	748.29	195.67	28.06	2.43
1099	HOURS	S	#: <u>11</u>			
		H 3				
		COMBAT	4.0G	5.00	6.00	7.00
	AIRPLANES	. X	ŠĮ.			
	HOURS	S .				
		H 3				

### MARINE

TRAINING 4.0G 5.0G 5.0G 7.0G

AIRPLANS X

HOURS

HOURS

COMBAT	4.0G	5.00	6.0G	7.00
X		1		•
S				
ъ 3			·	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- AT SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

OATA FROM 07-74

MODEL F-3A

77 AIRPLANES 37836 HOURS

M	٧	Y

		TRAINING	2.06	2,50	3.00	3.53
7:7	AIRPLANES	X	11.31	3.17	0.01	0.01
37778	HOURS	S	41.35	1.34	0.16	0.16
		H 3	0.04	7.93	\$ <b>.</b> 59	8.59
	ſ					
		COMBAT	2.00	2.50	3.00	3,50
1	AIRPLANES	· 🛱	0.00	0.00	G . CG	0.00
55	HOURS	S	H E			·
		H 3				

# MAR I NE

11.1.1 111					
	TRAINING	2.00	2,50	3.00	3.50
AIRPLANES	Σ	Ē	·		
HOURS	S ,				,
	Ĥз				
	COMBAT	2.00	2.50	3,00	3.50
AIRPLANES	X	+			
HOURS	S			,	
1100110	F4 3			,	

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- MM INSUFFICIENT DATA IN THIS CATEGORY

TALL DATA 01-62 TO 06-74

### MUDEL F-3H

151 AIRPLANES 794821 HOURS

	H	V	ļ
•			

		TRAINING	- 2.0G	2.56	ਤ .ਹੁੰਦ	3.55
150	AIRPLANES	X	18-59	1469	0.21	6.03
703820	HGURS	S	44-46	4.73	1.55	0.28
·	·	Н З	4 -53	6-10	9 -38	6.436
4 4				:		
•		COMBAT	.2.00	2,50	3.00	3,50
101	AIRPLANES	X	12.38	1.10	0.09	G - G I
	HIRPLANEQ	^	(2,1)	1.10	0.00	3.31
91001	HOURS	S	14-94	2.36	0.41	G-11

# MARINE

i					
	TRAINING	2.00	2.50	3.00	3,50
AIRPLANES	X	ž			
HOURS	S				·
HOOKO	H 3	•			
L					
	COMBAT	2.00	2.50	3.00	3.53
AIRPLANES	X	. 1			
HOURS	. S				
плока		•			

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- As SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

OATA FROM 07-73 to 06-74

1	1		£-		P	- 3	В
		 _		 			

105 AIRPLANES 69859 HOURS

### NAVY

		TRAINING	2.00	2,50	3.05	3.50
105	AIRPLANES	χ̈́	2.46	G-14	0 -02	0.01
68802	HOURS	S	3.47	0 - 42	0-17	0.12
		H 3	3.75	3.31	ე.ġ8	10.00
-	1					
		COMBAT	2.00	2.50	3.00	3.50
7	AIRPLANES	Σ	0.20	a · cc	S - SS	0.00
1057	HOURS	S	# #		·	

					7
M	$\Box$	R	ī	N	F
4 1		. \	-	1 3	4

	TRAINING	2.00	2,50	3.00	3.50
AIRPLANES	$\bar{\chi}$	ŧ			
HOURS	S				·
.100/10	H 3	:			
	COMBAT	2.09	2.5G	3.00	3,50
AIRPLANES	χ	Ħ			
HOURS	ទ				
,100	Fi 3				

MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MUUEL F-38

124 AIRPLANES 614882 HOURS

_	 		<u> </u>
	H	V	1

		TREINING	2.00	2.50	3.00	3.50
124	AIRPLANES	Х	10 -34	0.92	C - 1 L	0.04
527961	HOURS	S	24 - 74	2.23	0.42	a 56
		£1 3	2 -25	2.08	្រះ១០	4.63
		CCMBAT	2.00	2.50	3.00	3.00
78	AIRPLANES	F2	4.01	0.44	0 -03	0.01
36920	HOURS	S	5.52	0.32	0.15	C.11
ういひだり	113010		ī		1	

### MARINE

	TRAINING	2,00	2,50	3.00	3.50
AIRPLANES	χ̈́	*			
HOURS	S				
1.00110	£ 3				

	COMBAT	2.00	2,50	3.00	3,50
AIRPLBMES	X	1			
HOURS	S		,	`	
710010	G 3			1	

- MEAN CUMULATIVE COUNTS BED 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- MM INSUFFICIENT DATA IN THIS CATEGORY

AIRPLANES 73

43053

HOURS

	M	A	V	Y
--	---	---	---	---

	•					
		TRAINING	F 2.00	2,50	3.00	3.50
7:3	AIRPLANES	X	3 - 56	0.75	0.22	0.32
43063	HOURS	S	5.19	1.87	0.79	0.22
		H 3	3.51	5.19	4.45	5.06
	-					
		COMBAT	2.00	2.50	3.00	3,50
	AIRPLANES	X	. 15			
	<b>ลลบดห</b>	S				
	Į	H 3				

M		)	-	k 1	ï
11	-	$\mathcal{T}$	L	N	ί

	TRAINING	- 2,0G	2.50	3,00	3.50
AIRPLANES	Σ	7.			
HOURS	ទ				
	B 3			·	
1					
	COMBAT	2.00	2.50	3.00	3,53
AIRPLANE	χ	15			
Halles	S				

HOURS

F 3

CUMULATIVE COUNTS PER 1000 HOURS

ALL 0818 01-62 TO 06-74

1	14	11	1:	<u>-</u>	1	- '	. 47
1	1 : [					İ	

75 AIRPLANES 99553 HOURS

N	Fi	V	7
`	1 1	V	1

	<del></del>					
		TRAINING	2.00	2.50	3,00	3.50
75	AIRPLANES	X	3.77	0.66	0.11	S . 03
99328	HGURS	S	7.69	2.51	0.66	0.26
		H 3	3.27	4 .55	3.35	4-91
	1		<u> </u>	<b>.</b>		
÷		COMBAT	2.00	2.56	3.00	3.00
2	AIRPLANES	X	0.00	0.00	0.00	0.00
			ŀ	ł		}
335	HOURS	S	* 1			
335	HOURS	5 A 3	* 1			

### MARINE

AIRPLANES HOURS

TRAINING	2.00	2,50	3.00	3.50
X	f			
S				
H 3				

BIRPLANES

	COMBST	2.00	2.50	3.00	3.50
	Χ̈́	E			
Ì	S				
	H 3	,			

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- \$ STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- \* NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

08T8 FROM 07-73 TO 06-74

MODEL ES-20

5 AIRPLANES

1393

HOURS

# NAVY

		TRAINING	2.00	2.50	3.00	3.57
5	AIRPLANES	X	g.7j	1.87	0.00	0.00
1293	HOURS	S	# Y			
		t <del>3</del> 3				
		COMBAT	2,00	2.5G	3.00	3.55
	PIRPLANZS	Σ̈́	· ä			
	HOURS	S				
		H 3	·			
	L.		i		I	i

MARINE

ATRPLANZS HOURS	TRAINING X S A 3	2.00	2.50	3.00	3.50
AIRPLANES	I	2.00	2.50	3.00	3.50
HOURS	S A <sub>3</sub>				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

MM INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MODEL ES-ZU

6 AIRPLANES 5657 HOURS

### NAVY

. .

6 AIRFLANES S657 HOURS

TRAINING	2.0G	2.50	3.05	3.50
X	. 1 · ə.a	1.49	ე .37	0.00
S	ដូវ			
H 3				

AIRPLANES

COMBAT	2,00	2.5G	3.00	3.56
X	*			
S				
H 3				

# MARINE

A LRPLANES

X S	TRAINING	2.06	2.5G	3.00	3.50
S	X	*			
	S ,			·	
H 3	H 3				

	COMBAT	2.00	2.50	3.00	3.50
5	x	:			
	S				
ı	i4 3				

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO BATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

ORTA FROM 07-73 TO S6-74

MUDEL 5-2E

AIRPLANES EB HOURS 25859

Γ	N	H	V	Y
i			;	

	······································		1			
		TRAINING	2.00	2.50	3.00	3.56
୫୨	AIRPLANIS	X	66.30	13.39	0.74	0.06
25869	ห <b>ง</b> บลร	ຮ	134 - 26	60.80	1.36	G.28
		H 3	4.20	8,57	4.88	E .16
		COMBAT	2.00	2.50	3.00	3.55
	AIRPLANES	Σ	P.E.			
	HOURS	S				
		H 3				

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14	Lì	رہنے	- 1	NI	
- i 1		: N	- !	17:	1
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	<del></del>				
	TRAINING	2.00	2,50	3.09	3.50
AIRPLANES	χ̈́	Ħ			
HOURS	S				·
	F G	,			
	COMBAT	2.00	2.50	3.00	3.5G
AIRPLANES	χ̈	E			
มดบอด	S				

HOURS

ż MEAN CUMULATIVE COUNTS PER 1000 HOURS

CUMULATIVE COUNTS PER 1000 HOURS

INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MUDEL 5-2E

229 AIRPLANES 579088 HOURS

### NAVY

229	AIRPLANES
550207	HAUES

TRAINING	2.06	2,50	3.00	3,50
X	70.97	12.22	2.94	1.03
S	258 -04	29 -86	7.11	3.47
Э 3	5.42	4.29	2.39	2.64

28881 HOURS

COMBAT	2.00	2,50	3.00	3,50
Σ̄	40 -67	7.47	1 - 1 4	G.42
S	67.96	7.95	1.70	1.33
ъ 3	5-07	2.05	2.66	5.00

### MARINE

AIRPLANES

HOURS

TRAINING	2.00	2.50	3.00	3,50
X	. 🕏			
· S				
<b>.</b>				
		7	<del></del>	<del></del>

A LRPLANES

COMBAT	2.00	2.5G	3,00	3.50
X	<b>2</b>			
S		: .	`\ i	
₽ 3		,	,	

- MEAN CUMULATIVE COUNTS DER 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- MM INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 TO 06-74

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M	1 3	[ ]		1		- : "	
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	٠	اسا	L	L .	٠.٠		. 🕶

AIRPLANES 16598

HOURS

N	A	V	Y
		<u>.</u>	

		TRAINING	2,00	2.50	3.00	3.56
47	AIRPLANZS	Χ̈́	୫୫.୬୫	13.34	4 - 23	1.38
16598	HOURS	. S	113.79	16-67	7.36	3.37
		H 3	5.30	2.93	4.24	:.59
		COMBAT	2.0G	2.50	3.00	3.50
	A:RPLANES	Σ	ž	,		, ,
	HOURS	S				
	·	H 3				

# MARINE

AIRPLANES
HOURS

	TRAINING	2.00	2.5G	3.00	3.50
	χ	£			
	S			·	
L	£ 3				

	COMBAT	2.00	2.50	3.00	3.50
ار	x	é			
	S			ì	
	F 3			,	

- CUMULATIVE COUNTS PER 1000 HOURS

- INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

1.74	1	1 )	7-		$\sim$	
1 1	$\cup$	IJ	Ĺ	L.		 U

AIRPLANES 35877 HOURS 48

		TRAINING	2.06	2.56	3.06	3.00
-18	ALRPLANES	Χ	56.00	10.52	3.27	1.49
36877	HOURS	S	99.32	16.92	7.30	3.95
	:	H 3	÷-60	2.31	2.99	3.02
		COMBAT	2,00	2,50	3.00	3.00
	AIRPLANES	Σ	*			:
•	HOURS	S				
		H 3				

# MARINE

	TRAINING	2.0G	2.50	3.00	3.50
A LRPLANYS HOURS	X S Fl 3	*			
· ·					
	COMBAT	2.00	2,50	3.00	3.50
	$\bar{x}$	£			

	COMPH!	2.00	2.56	ス・じじ	3・56
AIRPLANSS	X	£			
HOURS	S				
1100110	A 3				

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- INSUFFICIENT DATA IN THIS CATEGORY

OPIA FROM 07-73 TO 06-74

3.50

		MUUEL	S-3H		
15	AIRPLI	ANES	1427	HO	URS

### NAVY

		TRAINING	2.00	2.56	3.05	3.55
16	AIRPLANES	Χ	711-17	304.97	68 <b>.</b> 53	16.51
1427	หรบคร	S	381.92	167.71	50.81	13.09
		£ 4	0 - 7'7	e .98	2.46	2 -30
		COMBAT	2.00	2.50	3,00	3,55
	AIRPLANZS	X	Ţ,			
	HOURS	S				
		H 3				

### MARINE

TRAINING 2.00 2.50 3.00

ALRPLANZS X \* S

HOURS 93

	COMBAT	2.00	2.50	3.00	3,50
AIRPLANES	x	2			
HOURS	S			Ņ	
1100.10	H 3	·		:	

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

NO DATA IN THIS CATEGORY

MM INSUFFICIENT DATA IN THIS CATEGORY

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

ALL DATA 01-62 TO 06-74

MUDEL S-3A

18 AIRPLANES 2651 HOURS

# NAVY.

1/1	V 1.					
		TRAINING	2.00	2.58	. 3.00	ತ ನಕ್ಕ
18	AIRPLANES	X	607.63	228.77	68 - 51	24.45
2651	HOURS	S	352 - 77	146.53	46 - 16	18-93
		A 3	0.36	38·C	1.52	1.33
			<u> </u>		<u> </u>	
		COMBAT	2.06	2.50	3.00	3.50
	AIRPLANES	X	. 15		•	·
	HOURS	S				
·		A 3			,	

# MARINE

1 1					
	TRAINING	2.00	2.5G	3.00	3.50
AIRPLANES	x	Ŧ			
HOURS	S				
	Н 3				
1					
	COMBAT	2.00	2,50	3.00	3.59
	-				

AIRPLANES HOURS

COMBAT	2.00	2,50	3.00	3.50
, $\bar{X}$	ž			
S				,
H 3				

MEAN CUMULATIVE COUNTS BED 1000 HOURS

<sup>5</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOUSE

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

<sup>#</sup> NO DATA IN THIS CATEGORY

MM INSUFFICIENT DATA IN THIS CATEGORY

OATA FROM 07-73 TO 06-74

	MUDE	L. 1-26	ī
<b>6</b> 5	AIRPLANES	22039	HOURS

### MHVY

		TRAINING	5.00	5.65	7.05	क्ष विक्रि
<b>6</b> S	AIRPLANES	X	53.41	14.26	1.85	0.56
22039	HOURS	S	34.67	13.24	1.55	o.78
		H 3	2.03	3.37	1.43	2.35
	!					
		COMBAT	5.00	5,00	7.0G	8.00
	AIRPLANES	χ	<b>*</b> :			
	HOURS	S				
		H 3				

### MARINE

AIRPLANES	X
HOURS	S
	ر.

TRAINING	5.00	5.00	7,00	8.00
Σ̈́	ŧ.		,	·
S				
£ 3				

BIRPLANZS HOURS

	COMBAT	5.00	5,00	7.0G	8.00
S	Ϋ́	ž			
١	S				
	₽ <sup>3</sup>				·

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- # NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO G6-74

-	The second laboratory in the second	
MU	UEL.	1-25

89 AIRPLANES 145331 HOURS

# NAVA

89	AIRPLANES
145331	HOURS

TRAINING	5.00	6.00	7.00	ধ . ৬ ৮
Х	226 -22	25.39	2.62	ე -3: <del>-</del>
S	247.81	39 -85	4 - 20	ດ -82
H 3	3.07	3.70	3.39	1.57

AIRPLANES HOURS

COMBAT	5.00	5.00	7.00	8.00
X	77			
S				
А 3				

### MARINE

AIRPLANES

HOURS

	TRAINING	5.00	6.00	7.00	8.00
	X	it.			
	ទ				
	H 3				
-					

AIRPLANES HOURS

COMBAT	5.00	5.00	7.00	8,00
x	£			
S			}	•
F 3			1	

MEAN CUMULATIVE COUNTS PER 1000 HOURS

STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

# NO DATA IN THIS CATEGORY

AM INSUFFICIENT DATA IN THIS CATEGORY

OATA FROM 07-73 TO 06-74

		MUUE	L. 1-2L	
23	AIRPI	ANES	8278	HAIII

NHVY

		TRAINING	5.05	5.00	7.00	8.00
29	AIRPLANES	X	30.24	10.50	3.30	0.25
8278	BAUCH	S	52.34	7.82	5.00	0.59
		H 3	1.95	2 - 16	3.81	2-62
	ſ	COMBAT	E 0.0	6 00		
	ļ	COLDE:	5,00	5.00	7.00	8.00
	AIRPLANES	X	#			
	HOURS	S				
		H 3				

MARINE

AIRPLANES HOURS

TRAINING	5.00	6.00	7.00	8,00
Χ̈	ž			
S				
9.3				

AIRPLANES

	COMBAT	5.00	5.00	7.00	8.00
٤	x	æ			
	S				
	3 L				

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MUUEL 1-20

AIRPLANES 12807 31

HOURS

### NHVY

31	AIRPLANES
12807	HOURS

TRAINING	5.00	5.00	7.00	8.00
Χ	72.92	9.54	3.21	0.62
S	61.66	8.39	5.50	1.09
A 3	2.46	2 .58	4.04	3.43.

AIRPLANES HOURS

COMBAT	5,00	6,0G	7.00	8.00
Σ̄	75			
S				
H 3				

### MARINE

BIRPLANES

HOURS

TRAINING	5.00	6.00	7.00	8.00
Χ̈	7		-	
ទ				·
A 3				·

COMBAT	5.00	6.00	7.00	8.00
χ	Е			
S				
.F. 3				

- THIS CATEGORY

ORTA FROM 07-73 to 06-74

5.00

MUDE		-28 <b>B</b>
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41 AIRPLANES 16993 HOURS

### NAVY

		TRAINING	3.00	4.00	5.90	8 JUG
41	AIRPLANES	Х	289.33	31.62	8.28	7.i4
16993	HOURS	S	151.36	43.09	35.95	35.71
		H 3	0 .55	3,59	5.31	ಕ.ಚಿಕ
		COMBAI	3.00	4,0G	5.00	5.00
`	AIRPLANES	Σ̈́	94 94			
	HOURS	S				
•		H 3				

### MARINE

	IRHINING	3.00	4 .OG	5.C
AIRPLANES	Σ̈́	£		
HOURS	S			
	H 3		ş	

	COMBAT	3,00	4 . OG	5.00	5.0G
	χ	72	*		
۱	·S			<b>\</b>	
	ts 3		•	:	÷

MEAN CUMULATIVE COUNTS DED 1000 HOUSE

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

AS SKEWNESS OF LOAD RATE DISTRIBUTION

NO BATA IN THIS CATEGORY

MM INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MODEL 1-28B

AIRPLANES 423497 102

HOURS

102 AIRFLANES

423497 HOURS

TRAINING	3.00	4.0G	5.00	6,00
X	333.57	44.95	5.21	0.03
S	628.08	112.84	23.16	7.12
A 3	1.00	2 -36	4 -39	R .22

AIRPLANES

HOURS

COMBAT	3.00	4.0G	5.00	6.0G
Σ̄	t.			
S				
H 3				

AIRPLANES

HOURS

TRAINING	3.00	4.0G	5,00	5.00
x	¥	;		
S				
Э3,				

COMBAT	3,00	4.0G	5.00	5.00
x	1			
S			·	
A 3	·			·

- IN THIS CATEGORY
- INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 TO C6-74

MUDEL 1-280

28 AIRPLANES 9586 HOURS

NAVY

	<del></del>					
		TRAINING	3.00	4.0G	5.00	5.00
28	AIRPLANES	X	612.66	50.13	3.40	0.80
9586	หรบกร	8	289.58	34 08	7.83	1.72
	·	H 3	C . 38	1.03	4 - 43	3.7!
		COMBAT	3.00	4.0G	5.00	5.GE
	AIRPLANES	Σ	. 75	·		
	HOURS	S				
		Fi 3				
					1	

MARINE

AIRPLANIS

HOURS

X S Ba	TRAINING	3.00	4.09	5.0G	5,89
S H 3	X	<b>f</b> .			
As	S				
	Н 3				

BIRPLANES  $\overline{X}$  \* S Hauns  $\overline{H}_3$ 

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

MM INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MODEL. T-280

44 AIRPLANES 166222 HOURS

### NAVY

44 AIRPLANES

TRAINING	3.00	4.00	5.00	5 - 00
X	1039-05	135 . 72	7.77	0.44
S	1194.94	:93 - 19	11.74	1.04
Н 3	-0.07	J.42	1.24	1 - 45

AIRPLANIS HOURS

COMBAT	3,00	4.06	5.00	5.0G
X	14			·
S				
Яз				

### MARINE

AIRPLANES

HOURS

TRAINING	3.00	4.0G	5,00	6.00
X	•			
S	·			
Э3				

AIRPLANES

COMBAT	3,00	4,06	5.00	6.0G
X	, <b>4</b>			·
S		·	}	
A 3			,	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- \$ STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- MH INSUFFICIENT DATA IN THIS CATEGORY

DATA FROM 07-73 TO 06-74

	A COMPANIES OF THE PARTY OF THE	-				
į	M 🗀	T TEL	1	7	(**)	1 ( )
-		115	!		- ~ ~ 4	$T \vdash C$
1	, , , ,	- L.J. C.,	٠.		· ()	TLノ

33 AIRPLANES 15779 HOURS

# NAVY

		TRAINING	3,00	-4,0G	5.00	5.00
<b>3</b> 3	AIRFLANES	X	215.11	28.57	0.30	0.57
16.773	HOURS	ລ	320,32	43.79	3.93	G - 34
		H 3	1.48	2.51	1 -57	3.56
						,
		COMBAT	3.00	4.00	5.00	5.00
	PIRPLANES	Σ̈́	7:			
	HOURS	S				
		H 3				

# MARINE

HIV TING					
	TRAINING	3.00	4,0G	5.00	5.00
AIRPLANES	Σ̄	¥			
หอบกร	5				
	H 3				
1					
	COMBAI	3.0G	4,00	5.00	6.00
BIRPLANES	x	*			
HOURS	S				
	H 3				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

<sup>\*</sup> NO DATA IN THIS CATEGORY

AM INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-74

MUDEL 1-34B

75 AIRPLANES 169265 HOURS

# NAVY

75	AIRPLANES		
169265	Hours		

TRAINING	3.00	4.06	5.06	5.56
X	1635.79	246,-31	23.38	1.31
S	1426-02	243.42	24.63	4.73
H 3	-0-12	0.24	0.77	7 .09

AIRPLANES HOURS

COMBAIL	3.00	4.00	5.00	5 - 00
X	ii			
S				
Ŋ 3				

### MARINE

AIRPLANES

HOURS

TRAINING	3.00	4.06	5.06	5.00
X	X.			
S				
H 3				

AIRPLANES

COMBAT	3.00	4.06	5.00	5.00
Σ.	£			
5				
£4 3				-

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- # NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

#### APPENDIX A

OUT-OF-SERVICE MODELS AND MODELS WHICH HAVE NOT REPORTED COUNTING ACCELEROMETER DATA DURING THE PREVIOUS 12 MONTHS

7.00

189.94

85.14

-0.37

7.0G

RCS NADC 13920-2

MODEL F-11A

12 AIRPLANES 3744 HOURS

NP	IVY	BLUE ANGELS				
		TRAINING	4 - O G	5.00	6.0	
12	AIRPLANES	X	5414 80	1826.99	520.71	
3744	HOURS	رى د	2263.48	740.91	208-44	
		Яз	-0.39	-0.65	-0.79	
		COMBAT	4.0G	5.0G	6.0	
	AIRPLANES	X.	* .	·		
	HOURS	S				
		Я з				

MARINE					
	TRAININ	- 4.00	5.00	6.00	7.00
AIRPLANE	X.	¥			
HGURS	S		-		
	H 3	·		·	
	COMPOT	4 00	- 01		7.04
	COMBAI	4,00	5.00	6.00	7.00
AIRPLANE	ა X	z.			
HOURS	S			}	
	A <sub>3</sub>			1	

MEAN CUMULATIVE COUNTS DED 1000 HOURS

STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

MM INSUFFICIENT DATA IN THIS CATEGORY

AIRPLANES 4400 11

HOURS

NA	VY	BLUE	ANGELS			,
		TRAINING	6.06/	7.00	8.50	10-66
11	AIRPLANES	x	740.74	192.71	12.43	3.88
4400	HOURS	ט	217.97	62.76	7.33	7.05
		Аз	0 - 1.9	0.26	0.95	2.32
		COMBAT	6.0G	7.00	8.5G	10.06
	AIRFLANES	Σ̈́	*			
	HBURS	cs C3				
		Аз				
MF	ARINE	•				
		TRAINING	6.00	7.00	8.5Ç	10.06
:	AIRPLANES	χ	¥			
	HOURS	C				
	,	Аз				
	ļ	COMBAT	6.0G	7.0G	8.50	10.00
	610016117	X	У.			
	AIRFLANES	B				

HOURS

CUMULATIVE COUNTS PER 1000 HOURS

RATE DISTRIBUTION

INSUFFICIENT DATA IN THIS CATEGORY

MODEL AF-1E

21 AIRPLANES

4527

HOURS

# NAVY

21	AIRPLANES
527	HOURS

TRAINING	4.0G	5.00	6.06	7.0G
X	563.04	125-53	22.27	3.80
S	200 - 25	52.92	16 - 14	4.72
А з	0.29	0.61	1.63	2.00

AIRPLANES Hours

COMBAT	4.0G	5.0G	6.0G	7.00
χ	к			
S				
A 3	·			

### MARINE

AIRPLANES

HOURS

TRAINING	4.0G	5.06	6.00	7.0C
x	*			
S				
Аз				

AIRPLANES

	COMBAT	4,0G	5.0G	6.0G	7.0G
S	X	≯.			
	S				
	4 з				

- MEAN CUMULATIVE COUNTS BED 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

### MODEL A-1H

28 AIRPLANES 7290 HOURS

# MUNIT

•		TRAINING	4 - O G	5.00	6.00	7.00
22	AIRPLANES	X	263.05	94.29	6 - 31	0.00
374	HOURS	S	42 - 25	16.64	2.73	0.00
		A:3	1-13	0.63	2.05	0-00

6.00 7.00 4.0G 5.0G COMBAT  $\bar{\chi}$ 322.42 89,29 14.84 0.00 AIRPLANES 28 S 77.52 27.19 6.46 0.00 6916 HOURS A 3 1.22 1.07 8.99 1.14

MARINE

11111 2 114					
	TRAINING	4.00	5,00	6.00	7.00
AIRPLANES	Σ̄	<b>X</b> :		e.	
HGURS	່		**************************************		,
1100.43	А 3				·
,					
	COMBAT	4 , 0 0	5.0G	6.00	7.00
AIRPLANES	χ̈́	<b>3</b> 1-			
HOURS	5			N i	
6 110011	A <sub>3</sub>			; !	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOUSE
- As SKEWNESS OF LOAD PATE DITTOLEN
- NO DATA IN THIS CATEGORY
- 44 INSUFFICIENT DATA IN THIS CATEGORY

### MODEL A-1J

4 AIRPLANES 917 HOURS

# NAVY

1 AIRPLANES
32 HOURS

TRAINING	4 . C G	5.0G	6.00	7.00
x	0.00 -	0.00	0.00	0.00
t)	* ×			·
H 3				

4 AIRPLANES
885 HOURS

COMBAT	4.0G	5.00	6.00	7.0G
Σ̄	306.82	125.89	17.28	0.00
ນ	**			
A 3				

# MARINE

AIRPLANES
HOURS

TRAINING	4.0G	5.00	6,00	7.00
χ	*			
נט				
Яз				•

	COMBAT	4.0G	5.00	6,00	7.00
E.S	- X	ж.			
U	S				
	H 3				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

## MODEL H-3B

AIRPLANES 69204 80

HOURS

90	AIRPLANES
60301	HOURS

TRAINING	2.00	2.50	3.00	3.50
X	549.10	175.35	55.56	12-41
S	417.74	111-34	45.03	24.05
ΑЗ	1.40	1.18	1.99	6.35

24 AIRPLANES 9953 HOURS

COMBAT	2.00	2.50	3.00	3.50
χ	623.15	187.91	76.93	37.43
S	244.96	120.09	77.16	46.34
H 3	0.61	1 - 43	2 - 5 5	2.86

## MARINE

AIRPLANES

HOURS

TRAINING	2.00	2.5G	3.00	3.59
χ	×		•	
S			:	
9 з				

COMBAT	2.00	2.50	3.00	3,50
Σ̄	ж			
5				
Аз				

- IN THIS CATEGORY

HOURS AIRPLANES 23177 58

N	A	V	Y

17.	<u> </u>					
		TRAINING	4 - CG	5.00	6.06	7.06
<b>5</b> 5	AIRPLANES	X	681-15	239 -03	49.07	7.87
20376	HOURS	S	358.28	164 65	46.69	9.80
		Ηз	0.67	1.04	2.09	2 - 1 4
	4					
		COMBAT	4 . CG	5.00	6.06	7.0G
	AIRPLANES	X	×			
	HOURS	ದ				
		Аз				

M	ΙC	ן נ	 ?	T	N	7
į.	!;	1 i	١.	<u>1</u> .	IV	4

MF	ARINE,					
		TRAININU	4.0G	5 ÷ 0 G	6,00	7.0G
8	AIRPLANES	X .	268 - 45	54.34	10.94	ee, 0
2800	HBURS	ຸ 5	<b>3</b> 6.9			
		ΗЗ				
	,					
		COMBAT	4.0G	5,0G	6.00	7.CG
	AIRPLANE:	X	у.			
	HOURS	βĵ	•		ì	
	CROOM	۲.			,	

COUNTS PER 1000 HOURS

INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA D1-62 TO **06-73** 

MODEL TA-4B

21 AIRPLANES

8198

HOURS

## NAVY

21 AIRFLANES 8199 HOURS

TRAINING	4.00	5.00	6.00	7.05
χ	384.01	143.16	41.39	7.29
S	416.24	192.98	54.39	12.86
9 3	1.32	1.55	1.97	2 - 5 9

AIRPLANES Hours

	· •			
COMBAT	4.0G	5.00	6.00	7.00
Σ̄	¥			
S				
Аз				

# MARINE

AIRPLANES

HOURS

IRAINING	4.0G	5.0G	6.00	7.09
Σ̄	#			
S				
А 3				
			<u></u>	

AIRFLANES MOURS

COMBAT	4.00	5.00	6.0G	7.0G
χ	*			
S				
A 3		·		

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

M NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 06-73

MODEL A-5A

30 AIRPLANES 11790 HOURS

## NAAA

30 AIRPLANES

TRAINING	3.0G	4.0G	5.05	16,000.
χ̈	579.58	128-26	9.04	S + 89
ຣ	487.22	42-19	4.68	1.00
А 3	4.57	0.57	0.75	1.63

AIRPLANES

COMBAT	3.00	4.0G	5,00	6.00
Σ̄	9.			
ទ				· .
βg				

# MARINE

AIRPLANES

TRAINING	3.00	4 .OG	5,06	6.00
X	, ж			·
S				
ВЗ.				

AIRPLANES

	COMBAT	3.OG	4.0G	5.00	6.06
. s	X	<b>y</b> :			
	S				
	<del>A</del> 3	2			

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

\* NO DATA IN THIS CATEGORY

HH INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-73

MODEL A-5B

5 AIRPLANES 985 HOURS

## NAVY

		TRAINING	3:06	4 4 U G	5.00	ნ ამნ
5	AIRPLANES	X	125.50	13.83	1.01	3.00
9 <b>3</b> 5	HOURS	S	* X			
		Аз				

AIRPLANES HOURS

COMBAT	3 <b>.</b> OG	4 ± 0 G	5,00	6.00
Σ	*			
S				
Аз		·		
	1			

## MARINE

AIRPLANES

TRAINING	3.0G	4.0G	5.0G	6 - 00
X	<b>%</b> :			
נט				
Аз				

COMBAT	3.0G	4.0G	5.00	6 - 00
x	у.			
Ω.			;	
Н <sub>З</sub>			: !	

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- W NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

## MODEL KC-130F

12 AIRPLANES 17648 HOURS

## NAVY

	Contraction of the Contraction o				
	TRAINING	2.0G	2.56	3.00	3.50
AIRPLANES	X	У.			
HCURS	S			·	
	Аз	-			
	COMBAT	2.06	2.5G	3.00	3.50
AIRPLANES	χ	7			
HCURS	S				
	А 3				

## MARINE

12 AIRPLANES

TRAINING	2.00	2.50	3.0G	3.50
X	6.76	0.42	0.08	0.00
S	5.79	0.51	0 - 22	0.00
А 3	-0.38	0.30	1.82	0.00

AIRPLANES

	COMBAT	2.00	2.5G	3.0G	3.50
٤	X	<b>&gt;</b>			·
	S			·	
	A g				

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- \* NO DATA IN THIS CATEGORY
- MM INSUFFICIENT DATA IN THIS CATEGORY

ALL DATA 01-62 TO 06-73

MODEL F-4A

27 AIRPLANES 17193 HOURS

## MAAA

27	AIRPLANES
17193	អនុបុក្ខទ

	TRAINING	4.0G	5,0G	6.0G	7.0G
,	X	794.95	261-91	66+29	11.59
	S	275.55	127.26	42.65	9.70
	Аз	0.409	9.33	0.71	1.19

AIRPLANES

COMBAT	4.0G	5.00	6.00	7.0G
Σ̄	ж			
S				
Аз				

## MARINE

AIRFLANES

TRAINING	4 . CG	5.00	6.00	7.0G
\bar{X}	31.			
S				
Я з				

COMBAT	4.0G	5,00	6.00	7.0G.
X	у.			
S	ļ			
Я 3				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- \$ STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- MX INSUFFICIENT DATA IN THIS CATEGORY

MUDEL IF-4A

4 AIRPLANES

433

HOURS

## NAVY

4 AIRPLANES

	TRAINING	4.00	5 / OG	6.0G	7.0G
õ	X	1	1	3.32	0.00
	S	<b>完 展</b>	·		
	Аз		÷		ı
į		www.titr.bost.gate.com/cathedren basics %.com/cathedrenox	nga ang sepinggilang saringganga (G. Spagaman anara sa at C	TARREST AND THE PROPERTY OF THE PARTY OF THE	

AIRPLANES
HOURS

CANADA SE ANDREAD AND A SECURITION OF THE PROPERTY OF THE PROP	DOWNER TO THE TAX WAS A STREET			
COMBAT	4.0G	5.0G	6.06	7.0G
χ	62			
S				
Яз	·			

# MARINE

AIRPLANES

HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
Σ̄	ĸ			
S				
Аз				
Contraction of the State of the	A CHARLES AND A			

A MEAN CUMULATIVE COUNTS PED 1000 MOUDS

STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

AS SKEWNESS OF LOAD RAYE DISTRIBUTION

E NO DATA IN THIS CATEGORY

AR INSUFFICIENT DATA IN THIS CATEGORY

AIRPLANES 1668 HOURS

_		_	
N	A	$\bigvee$	Y

		TRAINING	4.0G	5.0G	6.0G	7.00
12	AIRPLANES	x	1026.48	290.88	80.22	17.65
7848	HOURS	S	146.46	78.80	33.48	11.25

		<u> </u>		
χ	1026.48	290.88	80.22	17.65
ຣ	146.46	78.80	33.48	11.25
Яз	-0.36	-0.07	0.03	0.30
~~~~~	1		0 00	

10	AIRPLANE
2448	HOURS

COMBAT	4.0G	5.00	6.00	7.0G
X	1579.58	589.78	138.67	27.35
5	243.27	132.59	53.36	13.34
Αз	0.80	1.14	1.24	0.97

# MARINE

**AIRPLANES** HOURS

TRAINING	4.0G	5.0G	6.0G	7.00
χ	*			
5				
Αз	,			

COMBAT	4.0G	5.0G	6.0G	7.0G
x	*			
S				
Аз				

## MODEL F-6H

46 AIRPLANES 17986 HOURS

## NAVY

29 AIRPLANES 12399 HOURS

TRAINING	4.0G	5.00	6.00	7.00
Χ	190.91	25.88	1.99	5.20
S	143.14	29.94	2.18	0 - 75
Аз	2 - 4 ]	2.60	1.96	2.92

AIRPLANES

COMBAT	4.0G	5.00	6.00	7.0G
X	•		·	
CO				
А 3				

## MARINE

26 AIRPLANES 5587 HOURS

TRAINING	4.0G	5,00	6.0G	7.0G
Χ̈́	147.15	17.74	0.53	ე.ევ
cο	32.97	7.42	0.68	0.00
Аз	1-24	0.80	2 - 1 1	0.00

AIRPLANES

COMBAT	4.0G	5,00	6.00	7.0G
X	<b>*</b>			
ſ		·		
A <sub>3</sub>				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- \$ STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

MODEL F-8A

48 AIRPLANES 33043 HOURS

MUAX

48 RIRPLANES 33043 HOURS

TRAINING	4 . O G	5.00	6.06	7.05
x	678 -64	171-70	32.28	5.14
S	330.20	100.28	22.83	4.33
Аз	0.32	0.50	0.75	1 - 39

AIRPLANES HBURS

COMBAT	4,0G	5.0G	6.06	7.00
χ	<b>y</b> .			
S		-		
Вз	·			

M	9R	T	N	E

	TRAINING	4,00	510G	6.09	7.00
	X	*			
,	S	·			
	А з				

	СОМВОТ	4.00	5.00	6.00	7.0
AIRPLANE	- V	×		·	
HOURS	S				
75075	4 3			1	

MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

## MODEL RF-8H

AIRPLANES 20290 HOURS 28

-	-			
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ı	r.i.		M	Y
•	: V	1 1	V	1

in							
		TRAINING	4 . U G	5.00	6.00	1.0.5	
23	AIRPLANES	Χ	317.32	80.22	13.37	2,05	
15203	HBURS	S	120.58	36 - 11	7.56	1.88	
		Нз.	0.56	0.52	0 -61	1.90	
	<b>i</b>				,		
		COMBAT	4.0G	5.00	6 4 O G	7.66	
4	AIRPLANES	X	221.00	34.00	5.73	5.73	
355	HBURS	S	31. X.				
		Яз					
			t				

## MODINE

IMH	RING.					
		TRAINING	4.0G	5.00	6.00	7.0G
10	AIRPLANES	χ	151-04	28.24	4.41	0.56
4726	HCURS	S	<b>3</b> 1. 32.			
4/20 ;	1100:10	A 3				
	6					
		COMBAT	4.0G	5,06	6.06	7.0G
l	AIRPLANES	X	0.00	0.00	0.00	0.00

ß HOURS

	COMBAT	4.0G	5.06	6.00	7.00
ÇÇ.	X	0.00	0.00	0.00	0.00
ï	υ	<b>*</b> *			
	Aз		,		

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- SKEWNESS OF LOAD RATE DISTRIBUTION
- INSUFFICIENT DATA IN THIS CATEGORY

MODEL IF-8A

AIRPLANES 4924 30

HOURS

## NAVY

30	AIRPLANES
4924	HOURS

TRAINING	4.0G	5.0G	6.00	7.06
X	1274.72	393.67	82 63	14.88
S	354.70	139.02	33.41	5.09
Аз	0.88	2.10	2.48	០.98

AIRPLANES HOURS

COMBAT	4.0G	5.0G	6.0G	7.0G
X	#			
S				
Аз				

## MARINE

AIRPLANES

HOURS

TRAINING	4.0G	5.0G	6.00	7.0Ģ
Σ̄	號			
. 5				
Аз				

COMBAT	4.0G	5.0G	6.0G	7.0G
χ	×			
S			·	
A 3				

- INSUFFICIENT DATA IN THIS CATEGORY

MODEL F-8B

53 AIRPLANES 40015 HOURS

N	A	V	Y

46 AIRPLANES 29272 HBURS

TRAINING	4 . O G	5.00	6.06	7.00
X	313.00	203,88	34.52	3.69
S	316.12	100.90	23.43	3.94
А 3	ŋ .99	1.13	1.73	2.98

AIRPLANES HOURS

COMBAT	4,0G	5.00	6.00	7.00
χ	<b>&gt;</b> .		·	
S				
Аз				

## MARINE

36 AIRPLANES

IRAINING	4.0G	5.00	6.06	7.06
X	778.09	148.63	19-24	2.49
(C)	188-79	53.00	9.18	2 - 34
А 3	1.25	1.68	1.46	2.08

AIRPLANES

	COMBAT	4.0G	5.0G	6.00	7.0G
S	X	<b>≯</b> .			
	S			`}	
	A 3			1	

MEAN CUMULATIVE COUNTS BED 1000 MOURE

STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

NO DATA IN THIS CATEGORY

AN INSUFFICIENT DATA IN THIS CATEGORY

## MODEL F-80

87 AIRPLANES 76054 HOURS

## NAVY

		TRAINING	4.0G	5.00	6.00	7.00
78	AIRPLANES	X	875.42	217.67	38.78	4 - 89
53012	ଖଣ୍ଡବ୍ୟ	S	534.39	154.74	37.86	6.76
		Аз	1.20	1.14	1.60	2.57
				<u> </u>		
		COMBAT	4.0G	5.0G	6.00	7.00
11	AIRPLANES	$\bar{\mathbf{x}}$	848.92	194 -84	49.77	6.48
1689	вливн	5	575.51	119-04	27.36	6 - 78
		Аз	0.22	98.0	0.17	1.45

## MARINE

	IKINA .					
•		TRAINING	4.0G	5,06	6,06	7.00
37	AIRPLANES	$\bar{\chi}$	1217.83	346.89	67.32	10.17
20851	HBURS	S	370,14	107.80	22.36	4 - 73
13331 1133113		Н 3	1.83	1.60	1.66	0 - 05
		COMBAT	4.0G	5.0G	6.00	7.00
11	AIRPLANES	X	748.69	333.97	61.52	9.71
502	HBURS	S	.150+27	64-69	13.85	2.88

0.24

0.03

9.32

0.47

A 3

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

S STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

<sup>\*</sup> NO DATA IN THIS CATEGORY

<sup>##</sup> INSUFFICIENT DATA IN THIS CATEGORY

2.33

1.85

HOURS AIRPLANES 70986 1 G 1

NEVY	_			
	N	A	$\bigvee$	Y

-	<u></u>					
		TRAINING	4.0G	5.00	6.06	7.0G
93	AIRPLANES	X	1176.54	326-40	68.29	11.47
49588	HCURS	υs	490.92	154 - 19	37.61	7.79
		Аз	0.55	១.48	0.72	1.25
	1					
		COMBAT	4,0G	5.00	6.00	7.00
15	AIRPLANES	χ̈	1390.67	394 - 15	107.24	22.87
1060	HGURS	<i>9</i> 5.	468-87	79.59	21.81	5 · 33
		Аз	2,59	0.29	0 - 19	8.71

_					7
M	A	R	I	N	1

MA	IRINE,					
		TRAINING	4.0G	5.00	6.06	7.00
46	AIRPLANES	X	826.64	216.72	45.39	8 - 03
19583	HCURS	ťυ	398.11	118.51	30.75	5.85
19000 I	1,00.00	Аз	0.83	0.90	1.13	1.50
,	,					
		COMBAT	4,06	5.09	6.00	7.09
11	AIRPLANE:	, X	546 - 18	88 - 42	8.42	4 - 32
758	HSURS	es .	71.24	22.70	6-19	6-09
122	1130110					

G.78

0.55

MODEL F-8E

248 AIRPLAMES 198601 HOURS

N	A	$\bigvee$	Y	
-		. У.		1

243 AIRPLANES

TRAINING	4 - G G	5.00	6.06	7.0G
X.	1994 - 36	510,43	131.38	19.55
5	717.23	205.58	53 <b>.09</b>	11.45
'A 3 1 1	1.87	1.50	1.62	2.23

103 AIRPLANES 27936 HOURS

COMBAT	4 . D G	5.0G	6.00	7.0G
<del>X</del>	1974 97	372-52	92.68	17.22
S	193.19	101.22	41.20	15.20
Аз	0.06	0.97	3.20	5.50

MARINE

88 AIRPLANES 26217 HOURS

TRAINING	4.0G	5.00	6.06	7.0G
χ	1551.79	453.60	92.18	15.17
CD	451.22	138.34	35.57	9.01
A 3	Ŋ.49	0-04	0.50	1.81

52 AIRPLANES 18501 HOURS

COMBRI	4,00	5.00	6.06	7.0G
<del>X</del>	1334.99	460.44	118.91	19.35
5	373.39	123.04	28.68	§ ∙02
A <sub>3</sub>	3.39	0 - 45	១ភ. ១	1.55

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- \$ STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- ## INSUFFICIENT DATA IN THIS CATEGORY

AIRPLANES 9599 13

HOURS

13 AIRPLANES 9599 HOURS

TRAINING	4.0G	5.0G	6.00	7.0G
X	405 <b>.4</b> 8	91.31	11.23	ជ.82
S	271.17	85 - 23	15.41	1.65
А 3	0.49	0.76	1.93	1.35

AIRPLANES HOURS

COMBAT	4.0G	5.00	6.0G	7.0G
Σ̄	¥			
S				
Аз		,		

## MARINE

**AIRPLANES** 

HOURS

TRAINING	4.0G	5.0G	6.0G	7.0G
Σ̄	¥			
S				
Аз				

COMBAT	4.0G	5.0G	6.0G	7.0G
x	æ			
S			,	
А 3				

- IN THIS CATEGORY

### JÜB

AIRPLANES HOURS 16 9853

## NPVY

	TRAINING	3.00	4,0G	5.00	6.0G
RIRPLANES	χ̈́	ж.			
HOURS	9)				
	А 3		. 3		
	COMBRI	3.00	4,0G	5.00	.6.00
AIRPLANES	Ϋ́	Ж.			
HOURS	S				
	А 3			,	

# MODINE

MHKINE						
***************************************	······································	TRPINING	3.00	4.0G	5,00	6.00
14	RIRPLANES	Ÿ.	16.24	0.00	0.00	0.00
7526	H <b>O</b> URS	S	10.06	0.00	0.00	0.00
		Аз	-0.59	0.00	0.00	20+8
		COMBAT	3.00	4.0G	5.00	6.00
10	AIRPLANES	X	45.06	2,22	0.00	0.00
0000		S	<b>)</b>			·
2327	HOURS	A 3				·

CUMULATIVE COUNTS PER 1000 HOURS

IN THIS CATEGORY

MODEL F-LIA

36 AIRPLANES

22538

HOURS

## NAVY

36 AIRPLANES

TRPINING	4:00	5.00	6-06	7.06
X	2736.39	593,37	80402	10.38
S	316.87	259-16	60.36	10.36
Аз	1.30	1 -37	3 - 46	3.50

AIRPLANES

COMBAT	4,06	5.00	6.00	7.00
Ϋ́	¥			
ន			·	
H 3				

## MARINE

AIRPLANES

HOURS

TRAINING	4.06	5.00	6.00	7.00
Σ̈́	<b>&gt;</b> :			
ទ				
· A 3				

AIRPLANES

	COMBAT	4.00	5.00	6,00	7.0G
5	X	ж.			
	S				
	<del>Р</del> 3				

- X MEAN CUMULATIVE COUNTS PER 1000 HOURS
- 5 STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

MODEL S-2D

67 AIRPLANES 59015 HOURS

## NAVY

67	AIRPLANES
58445	HOURS

TRAINING	2,0G	2.50	3:06	ರ∗೮೮
X	33.25	7.71	1.77	0.74
S	34.30	9.23	5 . 36	4.85
Аз	1.72	1.98	6.51	7.25

8 AIRPLANES

COMBAT	2.00	2.5G	3.0G	3.50
χ	25.35	2.10	0.00	0.00
5	<b>x</b> :2			
Яз				

# MARINE

AIRPLANES

HOURS

	2,00	2.55	3.00	3.50
χ	<b>X</b> .			
S				
вя				

AIRPLANES

COMBAT	2.00	2.50	3.00	3 ± 5 G
X	<b>%</b>			
S		!	<b>\</b>	
-B 3		·	; - 1	

- MEAN CUMULATIVE COUNTS PER 1000 HOURS
- STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS
- A3 SKEWNESS OF LOAD RATE DISTRIBUTION
- W. NO DATA IN THIS CATEGORY
- AN INSUFFICIENT DATA IN THIS CATEGORY

6.0G

7.0G

MODEL 1-2A

147 AIRPLANES 584869 HOURS

|--|

147 AIRPLANES 584869 HOURS

TRAINING	4.0G	5.06	6.06	7.00
X	591.14	44.72	4.84	0.39
S	446.55	58.91	6.48	2.09
А 3	0.74	1.99	1.83	2.81

COMBAT 4.0G 5.0G

AIRPLANES X

HOURS

A 3

# MARINE

11/ 7 1/5					
	TRAINING	4.0G	5.00	6.0G	7.0G
AIRPLANES	X	Æ			
HOURS	S				
	Αз				
•					
	COMBAT	4.0G	5.0G	6,.OG	7.0G
AIRPLANES	x	æ			
HOURS	S				
1.001.0	A <sub>3</sub>				

X MEAN CUMULATIVE COUNTS PER 1000 HOURS

<sup>5</sup> STANDARD DEVIATION OF CUMULATIVE COUNTS PER 1000 HOURS

A3 SKEWNESS OF LOAD RATE DISTRIBUTION

M NO DATA IN THIS CATEGORY

<sup>##</sup> INSUFFICIENT DATA IN THIS CATEGORY

# APPENDIX B THE DETERMINATION OF SAMPLE STATISTICS FOR COUNTING ACCELEROMETER DATA

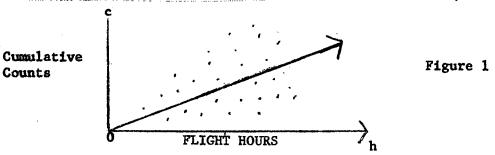
#### RCS NADC 13920-2

#### APPENDIX B

Subj: The Determination of Sample Statistics for Counting Accelerometer Data

Ref:

- (a) Browlee, K.A., "Statistical Theory and Methodology in Science and Engineering," Wiley 1965, pp. 358-359
- (b) Dixon & Massey, Introduction to Statistical Analysis, McGraw-Hill, Second Edition, 1957, pp. 194-195
- 1. The purpose of this appendix is to describe the methods used at NAVAIRDEVCEN in calculating statistics describing counting accelerometer data. The subsequent outlined sequence is repeated for each aircraft model, for each mission category, and for each g-level where there is sufficient data.
- 2. These are the methods used for determining sample statistics. Consider a scatter diagram of cumulative counts (at any g-level) vs. flight hours,



where each dot represents the cumulative counts and flight hours accrued by an individual serial number which is flying or has flown.

Let hi be the total quality control accepted flight hours for the ith plane (i=1, 2---N)

Let c<sub>i</sub> be the cumulative counts during the h<sub>i</sub> hours for the i<sup>th</sup> plane (i=1, 2---N)

N is the total number of aircraft of this model and mission category for which there is recorded information.

Then
(1)  $b = \frac{\sum_{i=1}^{N} c_i h_i}{\sum_{i=1}^{N} h_i^2}$  where b is slope of line (Figure 1) through origin

(2) x = 1000b estimated mean load exceedances at 1000 hours

(3) 
$$h = \underbrace{\frac{1}{i}}_{N} = 1$$
 average flight hours

(4) 
$$\hat{\sigma}_{ch} = \frac{\sum_{i=1}^{N} (c_i - bh_i)^2}{N-1}$$

$$\hat{\sigma}_{ch} = \sqrt{\hat{\sigma}_{ch}^2}$$

estimator of the population standard error squared of the regression

estimator of the population standard error of the regression

(5) 
$$S = \sqrt{1000 \frac{\hat{\sigma}_{ch}^2}{h}}$$

estimated standard deviation (counts at 1000 hours) of the load exceedances for each g-level

(6) 
$$A_3 = \frac{\sum_{i=1}^{N} (c_i - bh_i)^3}{\sum_{i=1}^{N} ch}$$

estimated skewness

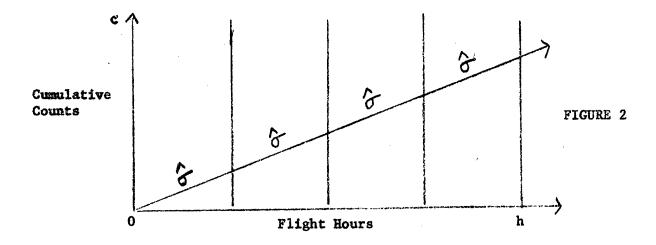
#### 3. The following is the explanation and justification for these methods:

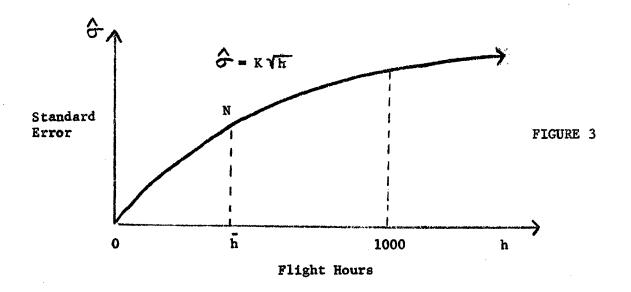
Aircraft which do not have any flight hours must have zero counts; therefore, the line in figure 2 must go through (0,0). Brownlee (reference (a)) describes the methods for fitting a least squares line through the origin (0,0). The slope of this line is the estimated mean exceedance rate (per hour). Multiplying this rate by 1000 will result in exceedances at 1000 hours (equation (2)). Multiplying b by any other h number of hours will result in mean exceedances at h hours.

If the data in figure 1 were separated into flight hour intervals (see figure 2) and the standard error in each interval were plotted against average flight hours (see figure 3) in that interval, the resultant curve is assumed to have the square root functional form.\* Due to limitations in sample size, these individual  $\mathcal{F}$ 's could not be determined accurately; thus, it was necessary to calculate a single  $\mathcal{F}_{ch}$  for all h combined and apply it at h.\*\* Equation (5) uses figure 3 to convert  $\mathcal{F}_{ch}$  at h to S at 1000 hours.

\* This is partially justified by the fact that the variance of a sum of independent random variables is equal to the sum of the independent variances. Unreported statistical tests performed at NAVAIRDEVCEN show that figure 3 is a reasonable fit to actual data. It should be noted that the 3's in figure 2 are estimated by equation (4), but each a was calculated using the data points in the respective interval.

\*\*The estimated standard error  $\hat{\sigma}_{ch}$  is used as the standard error of estimate for a hypothetical distribution of planes all having  $\hat{h}$  hours. This follows from work in reference (b).





If one wanted the standard error at some other value of hours h, he would simply replace 1000 in equation (5) by that value of hours h, and the appropriate standard error would result.

Skewness A<sub>3</sub> is computed in equation (6). This measure indicates whether more airplane load exceedances are above the mean line or below the mean line. If:

A<sub>3</sub><0 More load exceedances are above mean line than below

 $A_3 = 0$  Equal number of load exceedances above and below mean

A<sub>3</sub>>0 More load exceedances are below mean line than above

(Strictly speaking a distribution is symmetrical only if all its odd moments are zero; however, the above statement is approximately true.)

4. For ease of computation, equation (4) can be expanded as follows:

$$(N-1)^{\frac{1}{2}} ch^2 = \sum_{i=1}^{N} (c_i - bh_i)^2$$

$$(N-1) \hat{\sigma}_{ch^2} = \sum_{i=1}^{N} (c_i^2 - 2bc_i h_i + b^2 h_i^2)$$

(7) 
$$(N-1)$$
  $\hat{\sigma}_{ch^2} = \sum_{i=1}^{N} c_i^2 - 2b \sum_{i=1}^{N} c_i h_i + b^2 \sum_{i=1}^{N} h_i^2$ 

but 
$$b = \sum_{i=1}^{N} c_i h_i$$

and (7) can be reduced to

(N-1) 
$$\hat{\sigma}_{ch}^{2} = \sum_{i=1}^{N} c_{i}^{2} - 2b \sum_{i=1}^{N} c_{i}^{h_{i}} + b \sum_{i=1}^{N} c_{i}^{h_{i}} = \sum_{i=1}^{N} c_{i}^{h_{i}}$$

(8) 
$$\hat{\sigma}_{ch^2} = \begin{pmatrix} N & c_i^2 - b_i^N c_i^h_i \end{pmatrix} / (N-1)$$

Equation (8) will be used in lieu of equation (4) in determining  $\frac{2}{c_{ch}}$ .

5. An example using F-4G training Navy data, 12 airplanes 4.0G level:

Serial No.	Counts (ci)	Hours (h <sub>1</sub> )
150481	1567	1341.7
150484	649	618.2
150487	1114	1100.8
150489	5	273
150492	768	691.7
150625	23	139.6
150629	396	· · · · ·
150633	718	555.1 83 <b>1.</b> 3
150636	854	· · · · · · · · · · · · · · · · · · ·
150639	536	839.1
150642	910	695.4
150645	160	775.3 233.0

The following are tabulated:

$$h_1 = 7848.5$$

$$\frac{N}{2}$$
 c = 7700

$$\sum_{i=1}^{N} c_i h_i = 6913341.6$$

$$\sum_{i=1}^{N} h_i^2 = 6735017.87$$

$$\sum_{i=1}^{N} c_i^2 = 7250716.00$$

$$\sum_{i=1}^{N} (c_i - bh_i)^3 = -7082690$$

and are used in the following equations:

(1) 
$$b = \frac{6913341.6}{6735017.87} = 1.02647$$
 cts. per hr.

(2) 
$$\bar{x} = 1000 (1.02647) = 1026.47 \text{ cts. at } 1000 \text{ hrs.}$$

(3) 
$$\bar{h} = \frac{7848.5}{12} = 654.04 \text{ hours}$$

(8) 
$$\hat{\sigma}_{ch}^2 = \frac{7250716 - 1.02647 (6913341.6)}{11} = 14034$$
  $\hat{\sigma}_{ch}^{=118.5}$ 

(5) 
$$S = \sqrt{1000 (14034)/654} = 146.46$$
 cts. at 1000 hours.

(6) 
$$A_3 = \frac{-7082690}{12 (118.5)^3} = -.36$$

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